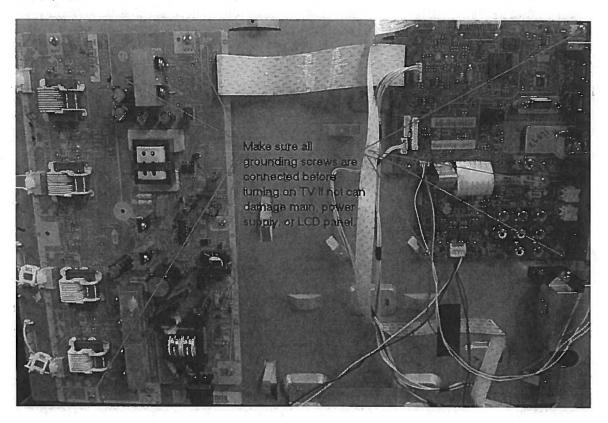
## ATTENTION ON ALL DVD/TV combo TV's

When working on a TV/DVD combo unit make sure you have all your ground screws connected when turning on TV if not can damage the main board, power supply, or LCD panel.



#### WHEN REPLACING DVD DECK

#### [ When removing the DVD Deck ]

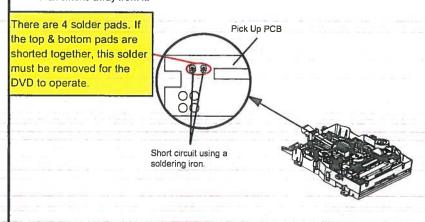
Before removing Pick Up PCB and DVD MT PCB connector, the short circuit the position shown in Fig. 1 using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.

#### [ When installing the DVD Deck ]

Remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

#### NOTE

- · Before your operation, please read "PREPARATION OF SERVICING",
- Use the Lead Free solder.
- · Manual soldering conditions
  - Soldering temperature: 320 ± 20°C
  - · Soldering time: Within 3 seconds
  - · Soldering combination: Sn-3.0Ag-0.5Cu
- When Soldering/Removing of solder, use the draw in equipment over the Pick Up Unit to keep the Flux smoke away from it.



#### PREPARATION OF SERVICING

Fig. 1

The laser diode used for a pickup head may be destroyed with external static electricity.

Moreover, even if it is operating normally after repair, when static electricity discharge is received at the time of repair, the life of the product may be shortened.

Please perform the following measure against static electricity, be careful of destruction of a laser diode at the time of repair.

- · Place the unit on a workstation equipped to protect against static electricity, such as conductive mat.
- · Soldering iron with ground wire or ceramic type is used.
- · A worker needs to use a ground conductive wrist strap for body.





# SANYO Factory Code Z5BE Service Reference NO. 521

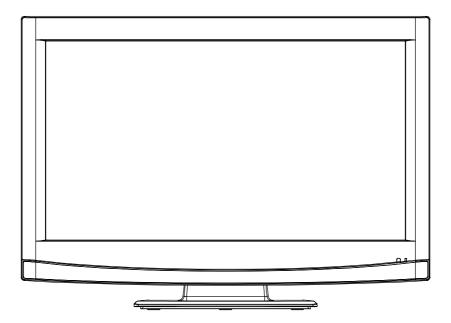
# SERVICE MANUAL

## **18.5" HDTV LCD**









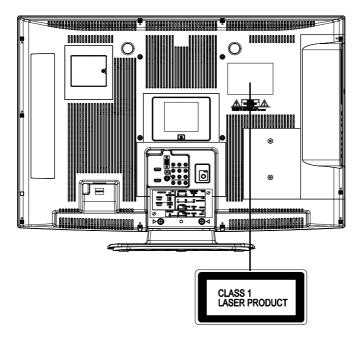
ORIGINAL
MFR'S VERSION A

#### IMPOTANT WARNING

#### **CAUTION:**

DVD PLAYER IS A CLASS 1 LASER PRODUCT. HOWEVER THIS PLAYER USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

THE FOLLOWING CAUTION LABEL IS LOCATED ON THE REAR PANEL OF THE PLAYER.



(Printed on the Rear Panel)

WHEN THIS PLAYER IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS PLAYER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

#### **SERVICING NOTICES ON CHECKING**

#### 1. KEEP THE NOTICES

As for the places which need special attentions, they are indicated with the labels or seals on the cabinet, chassis and parts. Make sure to keep the indications and notices in the operation manual.

#### 2. AVOID AN ELECTRIC SHOCK

There is a high voltage part inside. Avoid an electric shock while the electric current is flowing.

#### 3. USE THE DESIGNATED PARTS

The parts in this equipment have the specific characters of incombustibility and withstand voltage for safety. Therefore, the part which is replaced should be used the part which has the same character.

Especially as to the important parts for safety which is indicated in the circuit diagram or the table of parts as a  $\triangle$  mark, the designated parts must be used.

# 4. BE CAREFUL WITH THE LCD PANEL

Avoid a shock to the panel while servicing. Take enough care to deal with it.

#### 5. PUT PARTS AND WIRES IN THE ORIGINAL POSITION AFTER ASSEMBLING OR WIRING

There are parts which use the insulation material such as a tube or tape for safety, or which are assembled in the condition that these do not contact with the printed board. The inside wiring is designed not to get closer to the pyrogenic parts and high voltage parts. Therefore, put these parts in the original positions.

## 6. PERFORM A SAFETY CHECK AFTER SERVICING

Confirm that the screws, parts and wiring which were removed in order to service are put in the original positions, or whether there are the portions which are deteriorated around the serviced places serviced or not. Check the insulation between the antenna terminal or external metal and the AC cord plug blades. And be sure the safety of that.

#### (INSULATION CHECK PROCEDURE)

- 1. Unplug the plug from the AC outlet.
- 2. Remove the antenna terminal on TV and turn on the TV.
- Insulation resistance between the cord plug terminals and the eternal exposure metal [Note 2] should be more than 1M ohm by using the 500V insulation resistance meter [Note 1].
- If the insulation resistance is less than 1M ohm, the inspection repair should be required.

#### [Note 1]

If you have not the 500V insulation resistance meter, use a Tester.

#### [Note 2]

External exposure metal: Antenna terminal Headphone jack

#### **HOW TO ORDER PARTS**

Please include the following informations when you order parts. (Particularly the CHASSIS CODE.)

- 1. MODEL NUMBER and CHASSIS CODE YOU can find it in the back of your unit.
- PART NO. and DESCRIPTION You can find it in your SERVICE MANUAL.

#### **IMPORTANT**

When you exchange IC and Transistor with a heat sink, apply silicon grease (YG6260M) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damage to the IC and Transistor).

#### WHEN REPLACING DVD DECK

#### [ When removing the DVD Deck ]

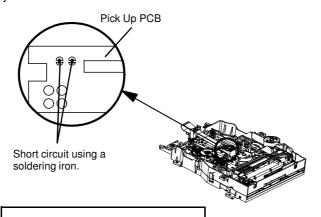
Before removing Pick Up PCB and DVD MT PCB connector, the short circuit the position shown in **Fig. 1** using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.

#### [ When installing the DVD Deck ]

Remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

#### **NOTE**

- Before your operation, please read "PREPARATION OF SERVICING".
- Use the Lead Free solder.
- · Manual soldering conditions
  - Soldering temperature: 320 ± 20°C
  - Soldering time: Within 3 seconds
  - Soldering combination: Sn-3.0Ag-0.5Cu
- When Soldering/Removing of solder, use the draw in equipment over the Pick Up Unit to keep the Flux smoke away from it.



#### NOTE:

There are 4 solder pads. If the top & bottom pads are shorted together, this solder must be removed for the DVD to operate.

Fig. 1

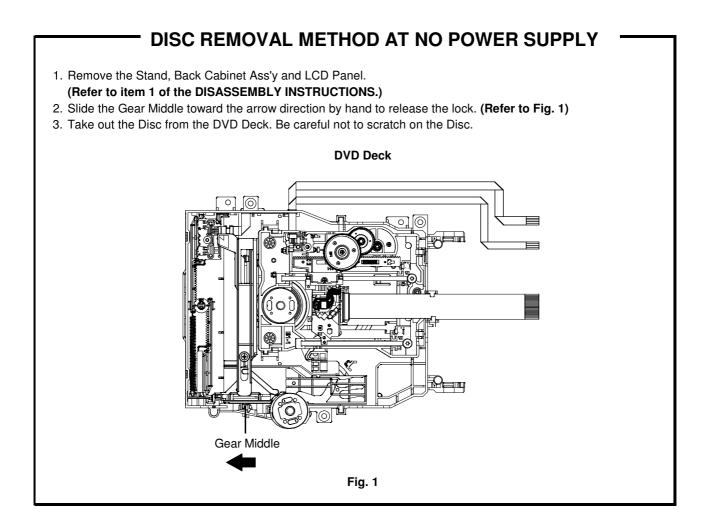
#### PREPARATION OF SERVICING -

The laser diode used for a pickup head may be destroyed with external static electricity.

Moreover, even if it is operating normally after repair, when static electricity discharge is received at the time of repair, the life of the product may be shortened.

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- Place the unit on a workstation equipped to protect against static electricity, such as conductive mat.
- · Soldering iron with ground wire or ceramic type is used.
- A worker needs to use a ground conductive wrist strap for body.



# PARENTAL CONTROL - RATING LEVEL 4 DIGIT PASSWORD CANCELLATION

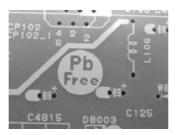
If the stored 4 digit password in the Rating Level menu needs to be cancelled, please follow the steps below.

- 1. Turn Unit ON.
- 2. Set the DVD to the Stop Mode.
- 3. Check that "No disc" is displayed on the screen.
- 4. Press and hold the "STOP" button on the front panel.
- 5. Simultaneously press and hold the "7" key on the remote control unit.
- 6. Hold both keys for more than 2 seconds.
- 7. The On Screen Display message "PASSWORD CLEAR" will appear.
- 8. The 4 digit password has now been cleared.

## **ABOUT LEAD FREE SOLDER (PbF)**

#### **Distinction of PbF PCB:**

PCBs (manufactured) using lead free solder will have a PbF printing on the PCB. (Please refer to figures.)



#### Caution:

- Pb free solder has a higher melting point than standard solder;
   Typically the melting point is 86°F~104°F(30°C~40°C) higher.
   Please use a soldering iron with temperature control and adjust it to 650°F ± 20°F (350°C ± 10°C).
   In case of using high temperature soldering iron, please be careful not to heat too long.
- Pb free solder will tend to splash when heated too high (about 1100°F/ 600°C).
- All products with the printed circuit board with PbF printing must be serviced with lead free solder.
   When soldering or unsoldering, completely remove all of the solder from the pins or solder area, and be sure to heat the soldering points with the lead free solder until it melts sufficiently.

#### Recommendations

Recommended lead free solder composition is Sn-3.0Ag-0.5Cu.

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DVD MT	F-1. F-2
DIGITAL	,
POWER/OPERATION/REMOCON	,
LOADING MOTOR/PCB.	
SCHEMATIC DIAGRAMS	. •
MPEG/MICON/DSP	G-1 G-2
MEMORY/SD CARD	
LOADER/MOTOR DRV	,
VIDEO/AUDIO IN/OUT	
FLASH	
DDR	
HDMI	•
LVDS	,
MICON	,
SCALER POWER.	•
TUNER	,
SCALER VIDEO/AUDIO	,
JACK	
REGULATOR	
SOUND	,
JACK2	•
POWER	,
REGULATOR2	,
OPERATION/REMOCON	,
LOADING MOTOR	
INTERCONNECTION DIAGRAM	
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MECHANICAL EXPLODED VIEWS	
DVD DECK EXPLODED VIEW	
MECHANICAL REPLACEMENT PARTS LIST	
DVD DECK REPLACEMENT PARTS LIST	
ELECTRICAL REPLACEMENT PARTS LIST	

G-1	TV	LCD	LCD Size / Visual Size			31.51 inch / 800.4mmV
	System		LCD Type			Color TFT LCD
	-		Number of Pixels			1366(H) x 768(V)
			Double Scan			No
			View Range		_eft/Right	89/89 degree
			view Hange			
			D. L.D.		Up/Down	89/89 degree
			Bright Dot			n <u>≤</u> 2
		-	Zero Bright Dot Ratio			70%
		Color System				NTSC
		Speaker				2 Speaker
			Position			Front
			Size			1.6 x 4.8 inch
			Impedance			8 ohm
		Sound Output	Max			5.0W + 5.0W
			10%(Typical)			
G-2	DVD System	Color System				NTSC
	_	Disc				DVD, CD-DA, CD-R/RW
						DVD-R/RW (Video Format Only)
		Disc Diameter				120 mm , 80 mm
						<u> </u>
		Drive				DSM-4
		Search speed	Fwd			4 step
					Actual	4, 8, 16, 32 times (DVD)
						4, 8, 16, 32 times (CD)
			Rev			4 step
			- <del>-</del>		Actual	4, 8, 16, 32 times (DVD)
					Actual	
						4, 8, 16, 32 times (CD)
		Slow speed	Fwd			4 step
					Actual	1/16, 1/8, 1/4, 1/2 times
			Rev			4 step
					Actual	1/16, 1/8, 1/4, 1/2 times
G-3	Tuning	Broadcasting System	Analog			US System M
<b>u</b> 0	System	broadcasting dystem	Digital			ATSC(8VSB)/QAM
	System	T				
		Tuner and	System			1Tuner
		Receive CH	Destination			US (W/CABLE)
		CH Coverage				2~69, 4A, A-5~A-1, A~I, J~W, W+1~W+94
		Intermediate Digital				44.00MHz
		Frequency Analog	Picture(FP)			45.75MHz
			Sound(FS)			41.25MHz
			FP-FS			4.50MHz
		Dunnat Old	11-13			
		Preset CH				No
		Stereo/Dual TV Sound				US-Stereo
		Tuner Sound Muting				Yes
G-4	Signal	Video Signal	Input Level			1 V p-p/75 ohm
			Output Level			
			S/N Ratio (Weighted)			
			Horizontal Resolution at DVD M	/lode		
		RGB Signal	Output Level			
			<u> </u>			
		Audio Signal	Input Level	. =		-8.0dBm/50k ohm
			Output Level	at DVD		-12 dBm/ 1k ohm (-20dBFs, 0dBFs=2.0Vrms)
					at TV	0-600mV /1k ohm
			Digital Output Level	-		0.5 V p-p/75 ohm
			S/N Ratio at DVD (Weighted)			85dB
			Harmonic Distortion			0.02% (1KHz)
				at DVD		4 Hz - 44 KHz (96KHz)
			requertly nesponse.		lidas OD	,
					Video CD	<del></del>
					at SVCD	
					at CD	4 Hz - 20 KHz
G-5	Power	Power Source	AC			120V, 60Hz
			DC			
		Power Consumption			at AC	108W at 120V 60Hz
		. cc. concampton			at DC	
			Stand by (ct AC)		at DO	
			Stand by (at AC)			0.3W at 120V 60Hz
			Energy Star			Yes (Ver.4.0)
			Per Year			kWh/Year
		Protector	Power Fuse			Yes
		-	Safety Circuit			Yes
			IC Protector(Micro Fuse)			Yes
G 6	Poguleti					
G-6	Regulation		Safety			UL(UL60065_7th)/cUL(CSA E60065_03)
			Radiation			FCC/IC
			Laser			DHHS
G-7	Temperature		Operation			+5°C ~ +40°C
	1		Storage			-20°C ~ +60°C
			Space Around Unit			10cm (4inch)

G-8	Operating Hu	ımidity		Less than 80% RH							
G-9	Clock and	Clock		No							
	Timer	Sleep Timer	Max Time	120 Min							
		On Timer	Program	Yes 1Program							
		Off Timer	Program	No							
		Game Timer		No							
		Timer Back-up (at	Power Off Mode) more than	Min Sec							
G-10	Remote	Unit		RC-SC							
	Control	Glow in Dark Remo	ocon	No							
		Remocon Format		SANYO							
		Format		NEC							
		Custom Code		38-C7 h							
		Power Source	Voltage(D.C)	3V							
			UM size x pcs	UM-3 x 2 pcs							
		Total Keys		50 Keys							
		Keys	POWER	Yes							
			DISPLAY/-	No							
			DISPLAY	Yes							
			"_"	Yes							
			TV/DVD	Yes							
			EJECT	Yes							
			1	Yes							
			2	Yes							
			3	Yes							
			4	Yes							
			5	Yes							
			6	Yes							
			7	Yes							
			8	Yes							
			9	Yes							
			0	Yes							
			MUTE	Yes							
			SLEEP	Yes							
			SETUP/TV MENU	Yes							
			DVD MENU	Yes							
			ENTER	Yes							
			Left	Yes							
			Right	Yes							
			Up	Yes							
			Down	Yes							
			CH+	Yes							
			CH-	Yes							
			VOL+	Yes							
			VOL-	Yes							
			CH+ / Up	No							
			CH- / Down	No							
			VOL+ / Right	No							
			VOL- / Left	No							
			EXIT/CANCEL	Yes							
			TOP MENU	Yes							
			SEARCH-	Yes							
			PLAY	Yes							
			SEARCH+	Yes							
			SKIP-	Yes							
			SUBTITLE	Yes							
			STOP	Yes							
			SKIP+	Yes							
			SLOW-	Yes							
			PAUSE	Yes							
			PAUSE PLAY MODE	Yes							
			SLOW+	Yes							
			AUDIO	Yes							
			RETURN	Yes							
			REPEAT A-B	Yes							
			ANGLE	Yes							
			Picture Size	Yes							
			MARKER	Yes							
			CCD/JUMP	Yes							
			Recall(Quick View)/ZOOM	Yes							
			INPUT SELECT	Yes							
			FREEZE	No							

11 Features	Auto Shut Off		Yes					
	Auto Search		No					
	Power On Memory		Yes					
	Hotel Mode		Yes					
	Comb Filter		Yes					
			<u>3 -D</u>					
	Game Position		No					
	Auto Setup		Yes					
		Language	No					
		TV Location	Yes					
		Signal Type	Yes					
	B:	Automatic Search	Yes					
	Picture Setting(TV)	Bit B (	Yes					
		Picture Preference	Yes					
		Brightness , Contrast , Color	Yes					
		Tint	Yes Yes					
		Sharpness						
		Color Temperature	Yes					
		DNR Bealdight	Yes					
	Picture Setting(PC)	Backlight	Yes Yes					
	Picture Setting(PC)	LIOD Desition VED Desition	Yes					
		HOR Position , VER Position Phase. Clock	Yes					
			Yes					
		Red, Green, Blue Auto Adjust	Yes					
	Audio	MTS	Yes					
	Audio	Tone Control (Bass/Treble/Balance)	Yes					
		Stable Sound	No					
		Surround	Yes					
		BBE	No					
		SRS WOW (SRS 3D/Focus/Tru Bass)	No					
		HDMI Audio	Yes					
		Variable Audio Out	Yes					
	Tuning	CH Program	Yes					
	runnig	Air/Cable	Yes					
		ADD/DELETE	Yes					
	Label	CH Label	Yes					
	Labor	Video Label	Yes					
	Favorite CH	Video Eabei	No					
	V-Chip		Yes					
	· 0p	Туре	USA Type					
	RRT Setup	.,,,,,	Yes					
	Lock	Hotel Lock	No					
		Channel Lock	No					
		Video Lock	No					
		Panel Lock	No					
	Menu Language		Englis					
	DBC (Dynamic Backl	ight Control)	No					
	Dynamic Gamma	,	Yes					
	Signal Meter (DTV Si	gnal)	Yes					
	Closed Caption	· ,	Yes					
	CC Advanced		Yes					
	V-Chip Clear		Yes					
	Picture Size		Yes					
	HD Zoom		Yes					
	Film Mode		Yes					
	Aspect		No					
	PFC(Power Factor ci	rcuit)	No					
	Freeze frame	•	No					
	PIP/POP		No					
	Direct Input Selection	1	Yes					
	PC Plug and Play		No					
	Energy Star LOGO (0	OSD)	Yes					
	Digital Out	Dolby Digital	Yes					
	2.g 00t	MPEG	No					
		PCM	Yes					
		DTS	No					

	PC Monitor Input		Yes
	i o monitor input	VGA (640x480)	Yes (60,72,75Hz)
		VGA (720x400)	Yes (70Hz)
		WVGA (848x480)	No
		SVGA (800x600)	Yes (56,60,72,75Hz)
		XGA (1024x768)	Yes (60,70,75Hz)
		WXGA (1280x768)	Yes (60Hz)
		WXGA (1280X700) WXGA (1280X720)	Yes (60Hz)
		WXGA (1280X720) WXGA (1360X768)	Yes (60Hz)
	LIDMUlancet	SXGA (1280x1024)	No
	HDMI Input	VOA (040, 400)	Yes
		VGA (640×480)	Yes (60Hz)
		720×480i (4:3)	Yes (60Hz)
		720×480i (16:9)	Yes (60Hz)
		720×480p (4:3)	Yes (60Hz)
		720×480p (16:9)	Yes (60Hz)
		720×576i (4:3)	No
		720×576i (16:9)	No
		720×576p (4:3)	No
		720×576p (16:9)	No
		1280×720p	Yes (60Hz)
		1920×1080i	Yes (60Hz)
		1920×1080p	Yes (60Hz)
		CEC (ORION Standard)	No
		Deep Color	No
		xvYCC	No
	DVI to HDMI Input	VGA (640x480)	Yes (60,72,75Hz)
	,	VGA (720x400)	Yes (70Hz)
		WVGA (848x480)	No
		SVGA (800x600)	Yes (56,60,72,75Hz)
		XGA (1024x768)	Yes (60,70,75Hz)
		WXGA (1280x768)	Yes (60Hz)
		WXGA (1280x720)	Yes (60Hz)
		WXGA (1360x768)	Yes (60Hz)
		SXGA (1280x1024)	No
	Component Input	CHART (1200X1024)	Yes
	Component input	720×480i (4:3)	Yes (60Hz)
		720×480i (4.3) 720×480i (16:9)	Yes (60Hz)
		720×480p (4:3)	Yes (60Hz)
		720×480p (16:9)	Yes (60Hz)
		720×576i (4:3)	No No
		720×576i (16:9)	No No
		720×576p (4:3)	No
		720×576p (16:9)	No
		1280×720p	Yes (60Hz)
		1920×1080i	Yes (60Hz)
		1920×1080p	No
	Wall Mount	Size W x H(mm)	Yes (200 x 200)
		Screw Size	M4 x 10
	Wall Mount Stand	Screw Size Tilt	M4 x 10 No
	Stand	Screw Size	M4 x 10 No No
Features	Stand Video CD Playback	Screw Size Tilt	M4 x 10 No No No
Features (DVD)	Stand  Video CD Playback  SVCD Playback	Screw Size Tilt	M4 x 10 No No No No
	Stand  Video CD Playback  SVCD Playback  MP3 Playback	Screw Size Tilt	M4 x 10  No  No  No  No  No  Yes
	Stand  Video CD Playback  SVCD Playback  MP3 Playback  JPEG	Screw Size Tilt	M4 x 10  No  No  No  No  No  Yes  Yes
	Stand  Video CD Playback  SVCD Playback  MP3 Playback  JPEG  WMA	Screw Size Tilt	M4 x 10  No  No  No  No  Yes  Yes  Yes
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision	Screw Size Tilt	M4 x 10  No  No  No  No  Yes  Yes  Yes  Yes  Yes (No Video Out)
	Stand  Video CD Playback  SVCD Playback  MP3 Playback  JPEG  WMA	Screw Size Tilt Swievel	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes (No Video Out)  No
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback	Screw Size Tilt Swievel  DMF Support	M4 x 10  No  No  No  No  Yes  Yes  Yes  Yes  Yes (No Video Out)
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision	Screw Size Tilt Swievel	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes (No Video Out)  No
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback	Screw Size Tilt Swievel  DMF Support	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes (No Video Out)  No  No
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback	Screw Size Tilt Swievel  DMF Support (Dolby Digital)	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes (No Video Out)  No  No  Yes
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback	Screw Size Tilt Swievel  DMF Support (Dolby Digital) (MPEG)	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes (No Video Out)  No  No  Yes  Yes  Yes  Yes
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback	Screw Size Tilt Swievel  DMF Support (Dolby Digital) (MPEG) (PCM)	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback  Digital Out	Screw Size Tilt Swievel  DMF Support (Dolby Digital) (MPEG) (PCM) (DTS) (Dolby Digital)	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback  Digital Out	Screw Size Tilt Swievel  DMF Support (Dolby Digital) (MPEG) (PCM) (DTS)	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback  Digital Out	Screw Size Tilt Swievel  DMF Support (Dolby Digital) (MPEG) (PCM) (DTS) (Dolby Digital)	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback  Digital Out  Down Mix Out  Auto Retract Disc	Screw Size Tilt Swievel  DMF Support (Dolby Digital) (MPEG) (PCM) (DTS) (Dolby Digital)	M4 x 10  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes  Yes (No Video Out)  No  No  Yes  Yes  Yes  Yes  No  No  No  No  No  No  No  No  No  N
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback  Digital Out  Down Mix Out  Auto Retract Disc Closed Caption Screen Saver	Screw Size Tilt Swievel  DMF Support (Dolby Digital) (MPEG) (PCM) (DTS) (Dolby Digital) (DTS)	M4 x 10  No  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye
	Stand  Video CD Playback SVCD Playback MP3 Playback JPEG WMA Macrovision Divx Playback  Digital Out  Down Mix Out  Auto Retract Disc Closed Caption	Screw Size Tilt Swievel  DMF Support (Dolby Digital) (MPEG) (PCM) (DTS) (Dolby Digital)	M4 x 10  No  No  No  No  No  No  Yes  Yes  Yes  Yes  Yes  Yes  Yes  Ye

G-12	Accessories	Owner's M	1anual	Language	E	English / Spanish						
				w/Guarantee Card	١	Yes						
		Remote C	ontrol Unit		\ \	Yes						
		Rod Anten				No						
				Poles	_	-						
				Terminal	_							
		Loop Ante	nna			No						
		Loop / linto	illa	Terminal	_							
		U/V Mixer		Tomma		No						
		DC Car Co	ord (Center	~1)		No						
		Guarantee	,	<del>*)</del>								
		Warning S				No No						
		Circuit Dia				No						
		Antenna C		α		No						
		Service Fa		9		No						
		Important				No						
		Dew/AHC		and t		No						
				ieet								
		Quick Set-	-up Sneet			No						
		Battery		LIM eige v nee		No						
				UM size x pcs		-						
		40.41		OEM Brand	-							
		AC Adapte				No						
		AC Cord (	for AC Ada	pter)		No						
		AC Cord			\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Yes						
		Cable Tie				No						
		AV Cord (2				No						
		Registration				No						
				na Adapter		No						
		Sheet Info		,		No						
		Sheet Info				No						
		Sheet Info				Yes						
				cture Quality)	١	Yes						
				heet Set Up)		No						
		Sheet Info				No						
		Sheet Info		EA)		No						
		Cleaning C	Cloth		No							
		Stand Scre	ew		Y	Yes(2pcs)						
		Stand			١	Yes						
		Frame Sta	ınd			No						
G-13	Interface	Switch	Side	Power (Tact)	١	Yes						
				Channel Up/Menu Up/Play	Y	Yes						
				Channel Down/Menu Down/Stop	١	Yes						
				Volume Up/Menu >	١	Yes						
				Volume Down/Menu <	١	Yes						
				Menu	١	Yes						
				Play		No (CH+ Alternative)						
				Eject	Y	Yes						
				Skip+, Search+		No						
				Skip-, Search-		No						
				Still/Pause		No						
				Stop		No (CH- Alternative)						
				Main Power SW		No						
				Input Select/Enter	\	Yes						
			Rear	Main Power SW		No No						
		Indicator	nedi									
		Indicator		Power/Stand-By Power Wake Up	,	Yes (Green / Red)						
				•		No No						
	I			On Timer		No						

	1	Terminals	Rear	Video Input 1	RCA x	1
		Terrinias	ricai	Audio Input 1		2(L/MONO, R)
				S - Input 1		2(L/MONO, 11)
				Video Input 2	Yes RCA x	1
				Audio Input 2		2(L/MONO, R)
				•	noa x	
				S - Input 2 Video Output		No No
				•	BO 4	
				Audio Output		2 (Variable) (L, R)
				Component Input 1	RCA x	
				Analog Audio Component Input 2	video i	nput 2 Audio Input Alternative  No
				·		No
				Analog Audio HDMI Input 1		NO
				·	Yes	dia lancat Altanantica
				Analog Audio		dio Input Alternative
				HDMI Input 2	Yes	NI.
				Analog Audio		No
				Sub Woofer Out	.,	No
				PC Monitor Input	Yes	. 1. 1 / 1.0 5) 075550
				Analog Audio		n Jack( ø 3.5), STEREO
				Digital Audio Output	Coaxia	
				DC Jack (Center +)		No
				VHF/UHF Antenna Input	F Type	
				Video Input 3		No
				Audio Input 3		No
				S - Input 3		No
				Other Terminal		No
				AC Inlet	Yes	
				USB (Software Update)	Yes	Na
0.14	Oat Cina			USB (JPEG/MP3/Software Update)	700 5	No
G-14	Set Size			Approx. W x D x H (mm)		x 214 x 581
C 15	Weight			w/o Handle, Stand Approx. W x D x H (mm)	9.9kg	(96 x 534
G-15	weight			Net (Approx.)  Net w/o Handle, Stand (Approx.)		,
					9.5kg	(20.9lbs)
				Gross (Approx.)	kg	(27.3lbs) ( lbs)
G-16	Carton		Master Ca	Gross w/Master Carton (Approx.)	kg	No
G-16	Carton		Masier G		Sets	
				Material Content	Sets	6
					/	
				Dimensions W x D x H(mm)  Description of Origin		
			Cift Day			/Drawn
			Gift Box	Material W/Color Photo Label	Double	/Brown
				W/Color Prioto Label W/Handle		No No
				Dimensions W x D x H(mm)	1000 v	193 x 654
				,	1022 X	
			Dran Tool	Description of Origin	1 Corn	No
			Drop Test	Height (cm)		er / 3 Edges / 6 Surfaces
			Containa		62	Sets/40' container
			w/Pallet	Stuffing (40' container)	399	No Sets/40 container
			w/Pallet w/Wrappi	na		No
G-17	Material		Cabinet	rrg Front	DC . AE	3S 94V0 NON-HALOGEN
J <sup></sup> ''	material		Jabillet	Rear		/0 NON-DECABROM
				Stand	PS 941	
				Jack Panel		ID .
			PCB	Non-Halogen Demand		No
			FOD	Eyelet Demand	Yes	INO
G-19	Environment		Environm	ental standard requirement		procurement of ORION
G-10	Livironinent		Pb-free	eniai sianuaiu requirement		procurement of ORION 3(Phase3A)
			Ln-1166	Measures for Whisker	Yes	o(FilasesA)
	1		Rohs	INICASULES TOT AATHSVEL	Yes	

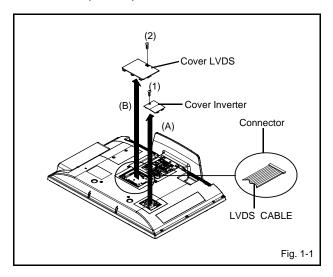
# 1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

#### **CAUTION**

Be careful not to remove the LVDS cable forcibly, because the LVDS cable may be damaged.

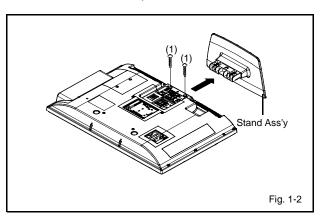
# 1-1: COVER INVERTER and COVER LVDS (Refer to Fig. 1-1)

- 1. Remove the screw (1).
- 2. Remove the Cover Inverter in the direction of arrow (A).
- 3. Disconnect the following connector: (CP3803).
- 4. Remove the screw (2).
- 5. Remove the Cover LVDS in the direction of arrow (B).
- Release the lock of connector disconnect the following connector: (CP2804).



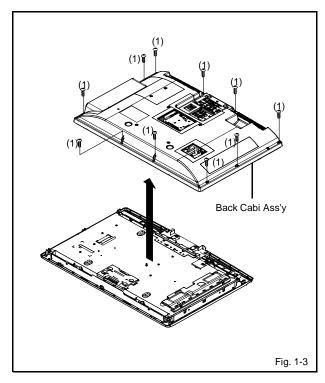
#### 1-2: STAND ASS'Y (Refer to Fig. 1-2)

- 1. Remove the 2 screws (1).
- 2. Remove the Stand Ass'y in the direction of arrow.



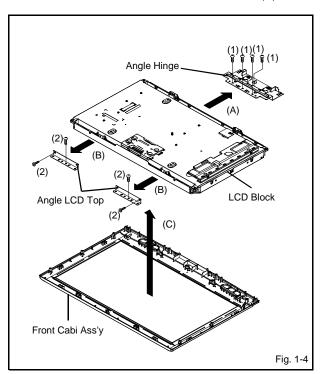
#### 1-3: BACK CABI ASS'Y (Refer to Fig. 1-3)

- 1. Remove the 10 screws (1)
- 2. Remove the Back Cabi Ass'y in the direction of arrow.



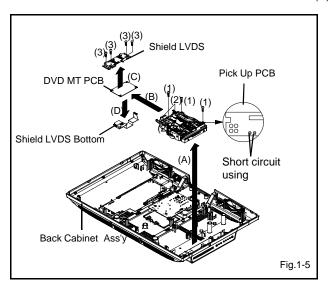
#### 1-4: LCD BLOCK (Refer to Fig. 1-4)

- 1. Remove the 4 screws (1).
- 2. Remove the Angle-Hinge in the direction of arrow (A).
- 3. Remove the 4 screws (2).
- 4. Remove the Angle LCD Top in the direction of arrow (B).
- 5. Remove the LCD Block in the direction of arrow (C).



#### 1-5: DVD MT PCB and DVD DECK (Refer to Fig. 1-5)

- 1. Short circuit the position shown in Fig. 1-5 using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.
- 2. Disconnect the following connectors: (CP2301, CP2302, CP2303, CP8501 and CP8502).
- 3. Remove the 3 screws (1).
- 4. Remove the DVD DECK Ass'y in the direction of arrow (A).
- Unlock the 2 supports (2).
- Remove the DVD MT PCB in the direction of arrow (B).
- Remove the 4 screws (3).
- 8. Remove the Shield LVDS in the direction of arrow (C).
- 9. Remove the Shield LVDS Bottom in the direction of arrow (D).



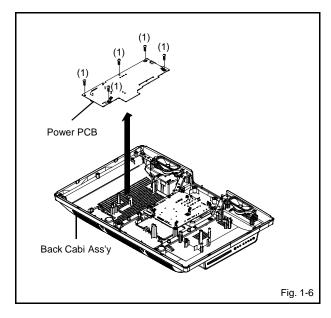
#### NOTE

- 1. Before your operation, please read "PREPARATION OF SERVICING".
- 2. Use the Lead Free solder.
- 3. Manual soldering conditions
  - Soldering temperature: 320 ± 20°C
    Soldering time: Within 3 seconds

  - Soldering combination: Sn-3.0Ag-0.5Cu
- 4. When Soldering/Removing of solder, use the drawing equipment over the Pick Up Unit to keep the Flux smoke away from it.
- 5. When installing the DVD Deck, remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD MT PCB connector.

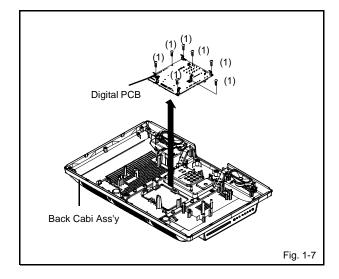
#### 1-6: POWER PCB (Refer to Fig. 1-6)

- 1. Disconnect the following connectors: (CP3808 and CP3809).
- 2. Remove the 5 screws (1).
- 3. Remove the Power PCB in the direction of arrow.



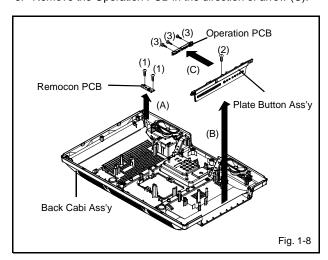
#### 1-7: DIGITAL PCB (Refer to Fig. 1-7)

- 1. Disconnect the following connectors: (CP301, CP6202 and CP6204).
- 2. Remove the 7 screws (1).
- 3. Remove the Digital PCB in the direction of arrow.



# 1-8: OPERATION PCB and REMOCON PCB (Refer to Fig. 1-8)

- Remove the 2 screws (1).
   Remove the Remocon PCB in the direction of arrow (A).
- 3. Remove the screw (2).
- 4. Remove the Plate Button Ass'y in the direction of arrow (B).
- 5. Remove the 3 screws (3).6. Remove the Operation PCB in the direction of arrow (C).



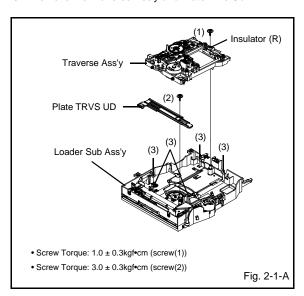
#### 2. REMOVAL OF DVD DECK PARTS

#### NOTE

 Disassemble only the DVD DECK PARTS parts listed here. Minute adjustments are needed if the disassembly is done. If the repair is needed except listed parts, replace the DVD MECHA ASS'Y.

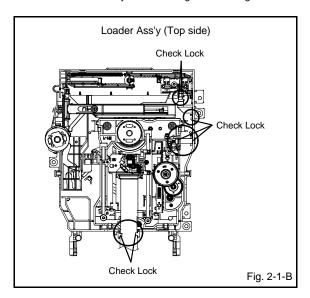
#### 2-1: TRAVERSE ASS'Y/LOADING MOTOR PCB ASS'Y/ PLATE TRVS UD (Refer to Fig. 2-1-A)

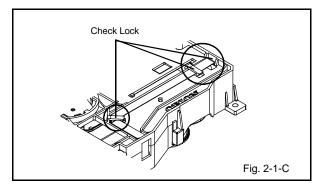
- 1. Remove the screw (1).
- 2. Remove the screw (2).
- 3. Unlock the 5 supports (3).
- 4. Remove the Insulator (R) from the Loader Ass'y.
- 5. Remove the Traverse Ass'y and Plate Trvs Ud.



#### NOTE

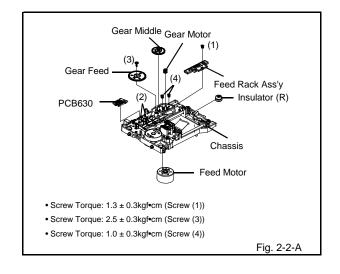
 In case of the Traverse Ass'y installation, hook the wire on the Loader Ass'y as shown Fig. 2-1-B to Fig. 2-1-C.





# 2.2: INSULATOR (R)/FEED RACK ASS'Y/ PCB630/GEAR MIDDLE/GEAR FEED/ FEED MOTOR/GEAR MOTOR (Refer to Fig. 2-2-A)

- 1. Remove the Insulator (R).
- 2. Remove the screw (1).
- 3. Remove the Feed Rack Ass'y.
- 4. Unlock the 2 supports (2).
- 5. Remove the PCB630.
- 6. Remove the screw (3).
- 7. Remove the Gear Feed.
- 8. Remove the Gear Middle.
- 9. Remove the 2 screws (4).10. Remove the Gear Motor.
- 11. Remove the Feed Motor.

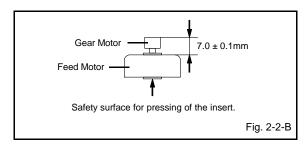


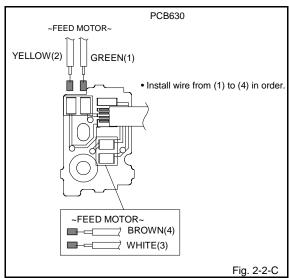
#### NOTE

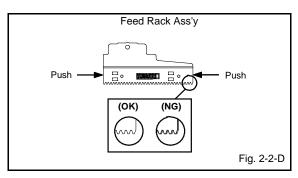
- In case of the Gear Motor installation, check if the value of the Fig. 2-2-B is correct.
- When installing the wire of the PCB630 install it correctly as Fig. 2-2-C.

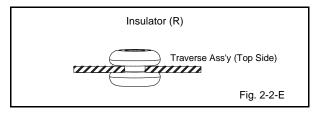
Manual soldering conditions

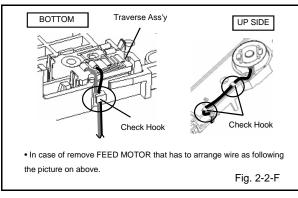
- Soldering temperature: 350 ± 5°C
- Soldering time: Within 4 seconds
- Soldering combination: Sn-3.0Ag-0.5Cu
- 3. When installing the Feed Rack Ass'y, push both ends to align the teeth as shown Fig. 2-2-D. Then install it.
- 4. In case of the Insulator (R) installation, install correctly as Fig. 2-2-E.
- 5. After the assembly of the Traverse Ass'y, hook the wire on the Traverse Ass'y as shown Fig. 2-2-F.









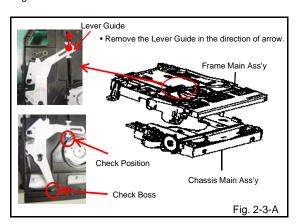


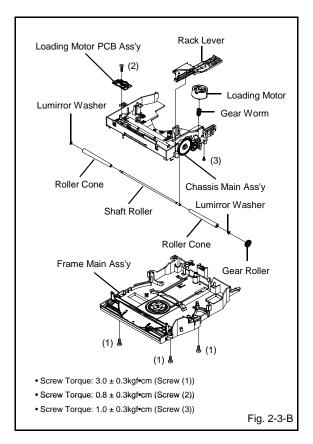
# 2.3: GEAR ROLLER/LUMIRROR WASHER/ ROLLER CONE/SHAFT ROLLER/ LOADING MOTOR PCB/LOADING MOTOR/ GEAR WORM/RACK LEVER (Refer to Fig. 2-3-B)

- 1. Remove the 3 screws (1).
- 2. Remove the Chassis Main Ass'y.
- 3. Remove the Roller Ass'y.
- 4. Remove the Gear Roller.
- 5. Remove the Lumirror Washer.
- 6. Remove the Roller Cone.
- 7. Remove the Shaft Roller .
- 8. Remove the screw (2).
- 9. Remove the Loading Motor PCB Ass'y.
- 10. Remove the screw (3).
- 11. Remove the Loading Motor.
- 12. Remove the Gear Worm.
- 13. Remove the Rack Lever.

#### NOTE

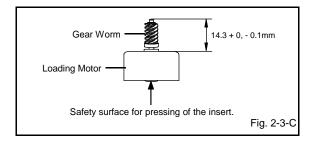
- When Chassis Main Ass'y is removed, it is necessary to change the position of Lever Disc and Guide Disc.
- In case of the Chassis Main Ass'y, check position Lever Disc, Lever Guide and Boss of Rack Disc Sensor as shown Fig. 2-3-A.

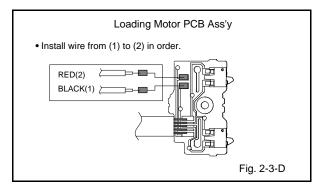


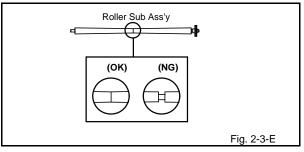


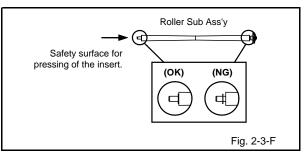
#### NOTE

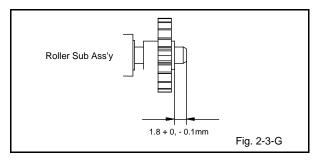
- 1. In case of the Gear Worm installation, check if the value of the Fig. 2-3-C is correct.
- When installing the wire of the Loading Motor PCB Ass'y, install it correctly as Fig. 2-3-D.
   Manual soldering conditions
  - Soldering temperature:  $350 \pm 5^{\circ}$ C
  - Soldering time: Within 4 seconds
  - Soldering combination: Sn-3.0Ag-0.5Cu
- In case of the Roller Cone installation, install correctly as Fig. 2-3-E.
- 4. In case of the Lumirror Washer installation, install correctly as Fig. 2-3-F.
- In case of the Gear Roller installation, check if the value of the Fig. 2-3-G is correct.
- After the assembly of the Loader Sub Ass'y, hook the wire on the Loader Sub Ass'y as shown Fig. 2-3-H.

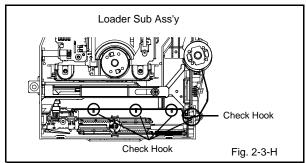




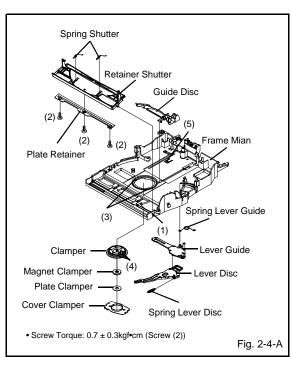






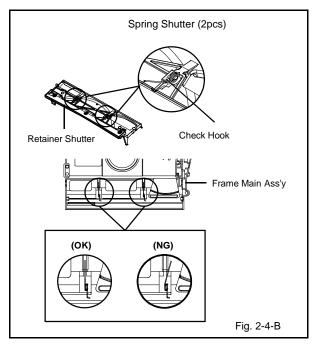


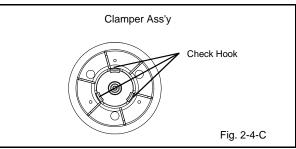
- 2.4: SPRING SHUTTER/PLATE RETAINER/
  RETAINER SHUTTER/COVER CLAMPER/
  PLATE CLAMPER/MAGNET CLAMPER/
  CLAMPER/GUIDE DISC/LEVER DISC/
  SPRING LEVER GUIDE/SPRING LEVER DISC/
  LEVER DISC (Refer to Fig. 2-4-A)
- 1. Unlock the support (1).
- 2. Remove the Retainer Shutter Ass'y.
- 3. Remove the Spring Shutter.
- 4. Remove the 3 screws (2).
- 5. Remove the Plate Retainer.
- 6. Remove the Retainer Shutter.
- 7. Unlock the 2 supports (3).
- 8. Remove the Cover Clamper.
- 9. Unlock the 3 supports (4).
- 10. Remove the Plate Clamper.
- 11. Remove the Magnet Clamper.
- 12. Remove the Clamper.
- 13. Unlock the support (5).
- 14. Remove the Guide Disc.
- 15. Remove the Lever Guide.
- 16. Remove the Spring Lever Guide.
- 17. Remove the Spring Lever Disc.
- 18. Remove the Lever Disc.



#### NOTE

- 1. In case of the Retainer Shutter Ass'y installation, check if the value of the Fig. 2-4-B is correct.
- 2. In case of the Clamper Ass'y installation, check if the value of the Fig. 2-4-C is correct.



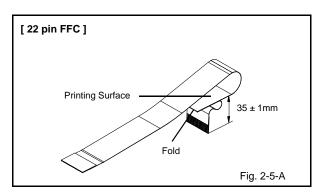


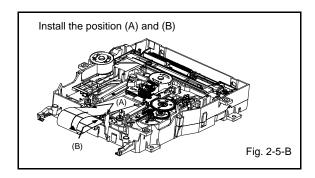
#### 2-5: FFC WIRE HANDLING

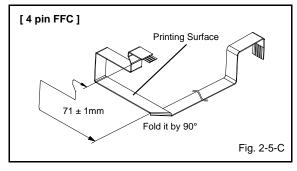
1. When installing the FFC, fold it correctly and install it as shown from Fig. 2-5-A to Fig. 2-5-D.

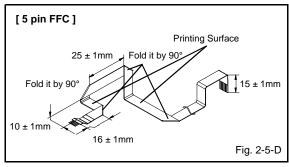
#### NOTE

 Do not make the folding lines except the specified positions for the FFC.









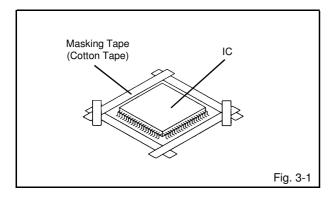
# 3. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

#### **REMOVAL**

 Put Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. (Refer to Fig. 3-1.)

#### NOTE

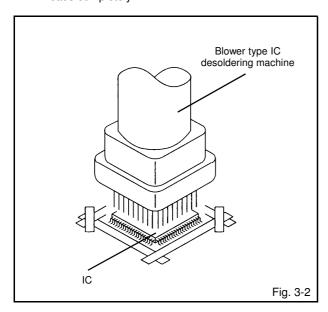
Masking is carried out on all the parts located within 10 mm distance from IC leads.



2. Heat the IC leads using a blower type IC desoldering machine. (Refer to Fig. 3-2.)

#### NOTE

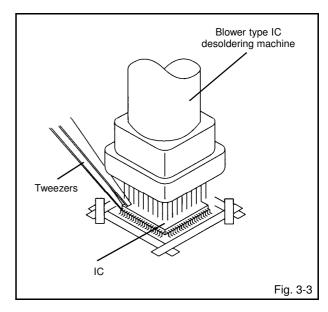
Do not rotate or move the IC back and forth , until IC can move back and forth easily after desoldering the leads completely.



 When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using tweezers and remove the IC by moving with the IC desoldering machine. (Refer to Fig. 3-3.)

#### NOTE

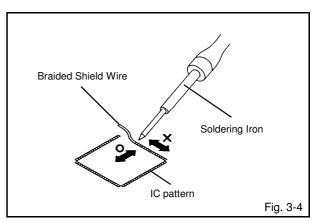
Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.



- 4. Peel off the Masking Tape.
- 5. Absorb the solder left on the pattern using the Braided Shield Wire. (Refer to Fig. 3-4.)

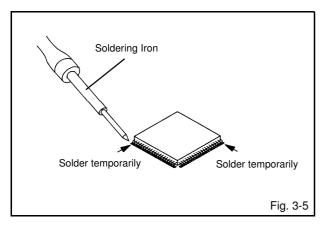
#### NOTE

Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.

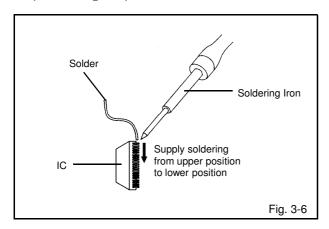


#### **INSTALLATION**

 Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. (Refer to Fig. 3-5.)



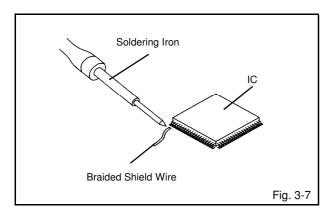
Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. (Refer to Fig. 3-6.)



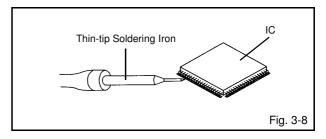
3. Absorb the solder left on the lead using the Braided Shield Wire. (Refer to Fig. 3-7.)

#### NOTE

Do not absorb the solder to excess.



 When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thintip Soldering Iron. (Refer to Fig. 3-8.)



 Finally, confirm the soldering status on four sides of the IC using a magnifying glass.
 Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

#### NOTE

When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, always be sure to replace the IC in this case.

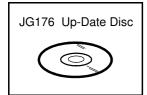
## **SERVICE MODE LIST**

This unit is provided with the following SERVICE MODES so you can repair, examine and adjust easily.

To enter to the SERVICE MODE function, press and hold both buttons simultaneously on the main unit and on the remote control for more than a the standard time in the appropriate condition. (See below chart.)

Set Condition	Set Key	Remocon Key	Standard Time	Operations
TV mode	VOL. DOWN (Minimum)	0	2 sec.	Releasing of V-CHIP PASSWORD.
TV mode	VOL. DOWN (Minimum)	1	2 sec.	Initialization of factory TV data.  NOTE: If you set factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours.
DVD mode (No disc)	VOL. DOWN (Minimum)	4	2 sec.	Initialization of factory DVD data.
DVD mode (No disc)	VOL. DOWN (Minimum)	5	2 sec.	DVD Write mode. Refer to the "RE-WRITE FOR DVD FIRMWARE".
ALL mode	VOL. DOWN (Minimum)	6	2 sec.	POWER ON total hours are displayed on the screen. Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
TV mode	VOL. DOWN (Minimum)	8	2 sec.	Check of the SUM DATA and MICON VERSION on the screen. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
ALL mode	VOL. DOWN (Minimum)	9	2 sec.	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).
DVD mode (No disc)	STOP	1	2 sec.	Check of the firmware version. Refer to the "RE-WRITE FOR DVD FIRMWARE". NOTE: Do not use this for normal servicing.
DVD mode (No disc)	STOP	7	2 sec.	Releasing of PARENTAL LOCK. Refer to the "PARENTAL CONTROL - RATING LEVEL".

#### SERVICING FIXTURES AND TOOLS



Ref. No.	Part No.	Parts Name	Parts Name
JG176	APJG176153	Up-Date Disc	Up-Date of the Firmware

#### **RE-WRITE FOR DVD FIRMWARE**

- 1. Turn on the power, and set the DVD mode.
- 2. Confirm that the "No Disc" will be appeared on the screen.
- 3. Press both VOL. DOWN button on the set and Channel button (5) on the remote control for more than 2 seconds.
- 4. Press VOL. UP/DOWN button on the unit to check if all the keys on the unit do not function.

NOTE: To check if DVD Write mode is set.

When inserting Up-Date Disc at Non DVD Write mode, the read error will happen.

- 5. Insert the Up-Date Disc. (Refer to SERVICING FIXTURE AND TOOLS)
- 6. Automatic read will start and "Firmware upgrade Please Wait" will be displayed on the screen. At this time, the horizontal noise lines may appear. But no problem.

NOTE: Do not turn off the unit on the way or operate the keys on the unit and remocon.

Up-Date error will happen and can not be done with the Up-Date of Up-Date Disc.

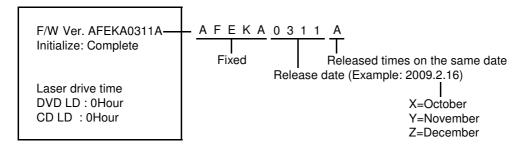
- 7. After the Up-Date, Logo screen will appear.
- 8. Unplug the AC cord, then plug it in.

#### After the write, set to the initializing of shipping.

- 9. Turn on the power, and set the DVD mode.
- 10. Press both VOL. DOWN button on the set and Channel button (4) on the remote control for more than 2 seconds. The "INITIALIZE 5 ---> COMPLETE" will appear on the screen.
- 11. Then unplug the AC cord, and plug it in.

#### **CHECK FOR THE FIRMWARE VERSION**

- 12. Turn on the power, and set the DVD mode.
- 13. Press both Channel button (1) on the remote control and the STOP button on the set for more than 2 seconds. Firmware version will be displayed on the top left of the screen.



When the changed version displays, the Re-write will be completed.

14. Turn off the power

#### WHEN REPLACING EEPROM (MEMORY) IC

#### CONFIRMATION OF CHECK SUM, POWER ON TOTAL HOURS AND MICON VERSION

Initial total of MEMORY IC, POWER ON total hours and MICON VERSIONcan be checked on the screen. Total hours are displayed in 16 system of notation.

NOTE: If you set a factory initialization, the total hours is reset to "0".

Please refer to "CONFIRMATION OF INITIAL DATA" when SUM DATA is not corresponding.

- 1. Turn on the POWER, and set to the ALL mode.
- 2. Set the VOLUME to minimum.
- 3. Press both VOL. DOWN button on the set and Channel button (8) on the remote control for more than 2 seconds.
- 4. After the confirmation of each check sum, turn off the power.

NOTE: The each item value might be different according to each set.

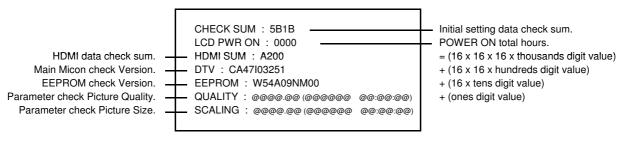


FIG. 1

#### **CONFIRMATION OF INITIAL DATA**

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to INITIAL SETTING TABLE (Attached "INITIAL DATA").

- 1. Turn on the POWER, and set to the ALL mode.
- 2. Set the VOLUME to minimum.
- 3. Press both VOL. DOWN button on the set and Channel button (6) on the remote control for more than 2 seconds. ADDRESS and DATA should appear as FIG 2.

NOTE: No need to set data other position than 0200~0F79.

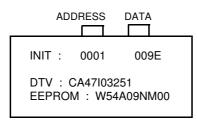


FIG. 2

- 4. ADDRESS is now selected and should "blink". Using the UP/DOWN buton on the remote, step through the ADDRESS until required ADDRESS to be changed is reached.
- 5. Press LEFT/RIGHT button to select DATA. When DATA is selected, it will "blink".
- 6. Again, step through the DATA using UP/DOWN button until required DATA value has been selected.
- 7. Pressing LEFT/RIGHT button will take you back to ADDRESS for further selection if necessary.
- 8. Repeat steps 4 to 6 until all data has been checked.
- 9. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

#### After the data input, set to the initializing of shipping.

- 10. Turn on the Power.
- 11. Set the VOLUME to minimum.
- 12. Press both VOL. DOWN button on the set and Channel button (1) on the remote control for more than 2 seconds.
- 13. After the finishing of the initializing of shipping, the unit will turn off automatically.

The unit will now have the correct DATA for the new MEMORY IC.

#### 1. ADJUSTMENT PROCEDURE

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

#### **CAUTION**

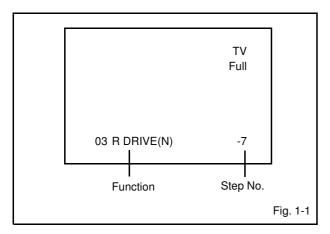
- Use an isolation transformer when performing any service on this chassis.
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
- When you exchange IC and Transistor with a heat sink, apply silicon grease (YG6260M) on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damages to the IC and Transistor).

# Prepare the following measurement tools for electrical adjustments.

1. Pattern Generator

#### **On-Screen Display Adjustment**

- 1. Set the VOLUME to minimum.
- Press the VOL. DOWN button on the set and the channel button (9) on the remote control for more than 2 seconds to display adjustment mode on the screen as shown in Fig. 1-1.



- Use the UP/DOWN button or Channel button (0-9) on the remote control to select the options shown in Fig. 1-2.
- 4. Press the SETUP/TV MENU button on the remote control to end the adjustments.
- To display the adjustment screen for TV, AV, COMPONENT, HDMI, PC and DVD mode, press the INPUT SELECT button on the remote control.
- 6. Receive the DIGITAL broadcasting.
- 7. To display the adjustment screen fo DTV mode, select the digital channel.
- 8. Press the VOL.DOWN button on the set and the channel **(9)** on the remote control for more than 2 seconds.

NO.	FUNCTION	NO.	FUNCTION
_		_	TINT
	R CUTOFF (N)	36	SHARP H1 MAX
			SHARP H1 MIN
06	G CUTOFF (N)	38	SHARP H2 MAX
07	B DRIVE (N)	39	SHARP H2 MIN
80	B CUTOFF (N)	40	SHARP H3 MAX
	( - )		SHARP H3 MIN
10	R CUTOFF (C)	42	SHARP H4 MAX
11	G DRIVE (C)	43	SHARP H4 MIN
12	G CUTOFF (C)	44	SHARP H5 MAX
	B DRIVE (C)		
14	B CUTOFF (C)	46	SHARP V1 MAX
	R DRIVE (W)		
16	R CUTOFF (W)	48	SHARP V2 MAX
17	G DRIVE (W)	49	SHARP V2 MIN
18	G CUTOFF (W)	50	CONTRAST CENTER
19	B DRIVE (W)	51	CONTRAST MAX
	B CUTOFF (W)		
29	BAK LIGHT CENT	53	COLOR CENTER
30	BAK LIGHT MAX	54	COLOR MAX
31	BAK LIGHT MIN	55	COLOR MIN
32	BRIGHTNESS CENT	58	CONTRAST 40
33	BRIGHTNESS MAX		
34	BRIGHTNESS MIN		Fig. 1-2

#### 2. BASIC ADJUSTMENTS

#### 2-1: WHITE BALANCE

- 1. Place the set in Aging Test for more than 15 minutes.
- Receive the gray scale pattern from the Pattern Generator.
- 3. Press the INPUT SELECT button on the remote control to set to the AV mode.
- 4. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (03) on the remote control to select "R DRIVE (N)".
- Press the UP/DOWN button on the remote control to select the "R CUTOFF (N)", "B DRIVE (N)", "B CUTOFF (N)", "R DRIVE (C)", "R CUTOFF (C)", "B DRIVE (C)", "B CUTOFF (C)", "R DRIVE (W)", "R CUTOFF (W), "B DRIVE (W)" or "B CUTOFF (W)".
- Adjust the LEFT/RIGHT button on the remote control to whiten the R DRIVE (N), R CUTOFF (N),
   B DRIVE (N), B CUTOFF (N), R DRIVE (C),
   R CUTOFF (C), B DRIVE (C), B CUTOFF (C),
   R DRIVE (W), R CUTOFF (W), B DRIVE (W) and
   B CUTOFF (W) at each step tone sections equally.
- Perform the above adjustments 6 and 7 until the white color is achieved.

#### 2-2: BRIGHTNESS CENT

- 1. Place the set in Aging Test for more than 15 minutes.
- 2. Receive the color bar pattern. (RF Input)
- 3. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (32) on the remote control to select "BRIGHTNESS CENT".
- Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "130".
- 6. Check if the picture is normal.
- 7. Receive the color bar pattern. (VIDEO Input)
- 8. Using the remote control, set the brightness and contrast to normal position.
- Press the INPUT SELECT button on the remote control to set to the AV mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (32) on the remote control to select "BRIGHTNESS CENT".
- Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "130".
- 12. Check if the picture is normal.
- 13. Receive the color bar pattern. (S-VIDEO Input)
- 14. Using the remote control, set the brightness and contrast to normal position.
- 15. Press the INPUT SELECT button on the remote control to set to the AV(Y/C) mode. Then perform the above adjustments 10~12.
- 16. Playback the DVD(480i) disc. (COMPONENT Input)
- 17. Using the remote control, set the brightness and contrast to normal position.
- Press the INPUT SELECT button on the remote control to set to the COMPONENT mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (32) on the remote control to select "BRIGHTNESS CENT".
- 20. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "125".
- 21. Check if the picture is normal.
- 22. Playback the DVD(480i) disc. (HDMI Input)
- 23. Using the remote control, set the brightness and contrast to normal position.
- Press the INPUT SELECT button on the remote control to set to the HDMI mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (32) on the remote control to select "BRIGHTNESS CENT".
- Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "127".
- 27. Check if the picture is normal.
- 28. Playback the DVD(480i) disc.
- Press the INPUT SELECT button on the remote control to set to the DVD mode.
- 30. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (32) on the remote control to select "BRIGHTNESS CENT".
- 32. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "128".
- 33. Check if the picture is normal.

#### 2-3: CONTRAST MAX

- 1. Place the set in Aging Test for more than 15 minutes.
- 2. Receive the color bar pattern. (RF Input)
- Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (51) on the remote control to select "CONTRAST MAX".
- 5. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "172".
- 6. Check if the picture is normal.
- 7. Receive the color bar pattern. (VIDEO Input)
- Using the remote control, set the brightness and contrast to normal position.
- 9. Press the INPUT SELECT button on the remote control to set to the AV mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (51) on the remote control to select "CONTRAST MAX".
- 11. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "146".
- 12. Check if the picture is normal.
- 13. Receive the color bar pattern. (S-VIDEO Input)
- 14. Using the remote control, set the brightness and contrast to normal position.
- 15. Press the INPUT SELECT button on the remote control to set to the AV(Y/C) mode. Then perform the above adjustments 10~12.
- 16. Playback the DVD(480i) disc. (COMPONENT Input)
- 17. Using the remote control, set the brightness and contrast to normal position.
- 18. Press the INPUT SELECT button on the remote control to set to the COMPONENT mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (51) on the remote control to select "CONTRAST MAX".
- 20. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "148".
- 21. Check if the picture is normal.
- 22. Playback the DVD(480i) disc. (HDMI Input)
- 23. Using the remote control, set the brightness and contrast to normal position.
- 24. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
- 25. Activate the adjustment mode display of Fig. 1-1 and press the channel button (51) on the remote control to select "CONTRAST MAX".
- 26. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "138".
- 27. Check if the picture is normal.
- 28. Playback the DVD(480i) disc.
- 29. Press the INPUT SELECT button on the remote control to set to the DVD mode.
- 30. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (51) on the remote control to select "CONTRAST MAX".
- 32. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "136".
- 33. Check if the picture is normal.

#### 2-4: CONTRAST CENTER

- 1. Place the set in Aging Test for more than 15 minutes.
- 2. Receive the color bar pattern. (RF Input)
- 3. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (50) on the remote control to select "CONTRAST CENTER".
- Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "122".
- 6. Check if the picture is normal.
- 7. Receive the color bar pattern. (VIDEO Input)
- 8. Using the remote control, set the brightness and contrast to normal position.
- Press the INPUT SELECT button on the remote control to set to the AV mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (50) on the remote control to select "CONTRAST CENTER".
- Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "104".
- 12. Check if the picture is normal.
- 13. Receive the color bar pattern. (S-VIDEO Input)
- 14. Using the remote control, set the brightness and contrast to normal position.
- 15. Press the INPUT SELECT button on the remote control to set to the AV(Y/C) mode. Then perform the above adjustments 10~12.
- 16. Playback the DVD(480i) disc. (COMPONENT Input)
- 17. Using the remote control, set the brightness and contrast to normal position.
- Press the INPUT SELECT button on the remote control to set to the COMPONENT mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (50) on the remote control to select "CONTRAST CENTER".
- 20. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "106".
- 21. Check if the picture is normal.
- 22. Playback the DVD(480i) disc. (HDMI Input)
- 23. Using the remote control, set the brightness and contrast to normal position.
- Press the INPUT SELECT button on the remote control to set to the HDMI mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (50) on the remote control to select "CONTRAST CENTER".
- Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "97".
- 27. Check if the picture is normal.
- 28. Playback the DVD(480i) disc.
- Press the INPUT SELECT button on the remote control to set to the DVD mode.
- 30. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (50) on the remote control to select "CONTRAST CENTER".
- 32. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "96".
- 33. Check if the picture is normal.

#### 2-5: CONTRAST 40

- 1. Place the set in Aging Test for more than 15 minutes.
- 2. Receive the color bar pattern. (RF Input)
- Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (58) on the remote control to select "CONTRAST 40".
- 5. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "163".
- 6. Check if the picture is normal.
- 7. Receive the color bar pattern. (VIDEO Input)
- Using the remote control, set the brightness and contrast to normal position.
- 9. Press the INPUT SELECT button on the remote control to set to the AV mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (58) on the remote control to select "CONTRAST 40".
- 11. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "140".
- 12. Check if the picture is normal.
- 13. Receive the color bar pattern. (S-VIDEO Input)
- 14. Using the remote control, set the brightness and contrast to normal position.
- 15. Press the INPUT SELECT button on the remote control to set to the AV(Y/C) mode. Then perform the above adjustments 10~12.
- 16. Playback the DVD(480i) disc. (COMPONENT Input)
- 17. Using the remote control, set the brightness and contrast to normal position.
- 18. Press the INPUT SELECT button on the remote control to set to the COMPONENT mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (58) on the remote control to select "CONTRAST 40".
- 20. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "140".
- 21. Check if the picture is normal.
- 22. Playback the DVD(480i) disc. (HDMI Input)
- 23. Using the remote control, set the brightness and contrast to normal position.
- 24. Press the INPUT SELECT button on the remote control to set to the HDMI mode.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (58) on the remote control to select "CONTRAST 40".
- 26. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "129".
- 27. Check if the picture is normal.
- 28. Playback the DVD(480i) disc.
- 29. Press the INPUT SELECT button on the remote control to set to the DVD mode.
- 30. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (58) on the remote control to select "CONTRAST 40".
- 32. Press the LEFT/RIGHT button on the remote control until the contrast step No. becomes "128".
- 33. Check if the picture is normal.

#### 2-6: Confirmation of Fixed Value (Step No.)

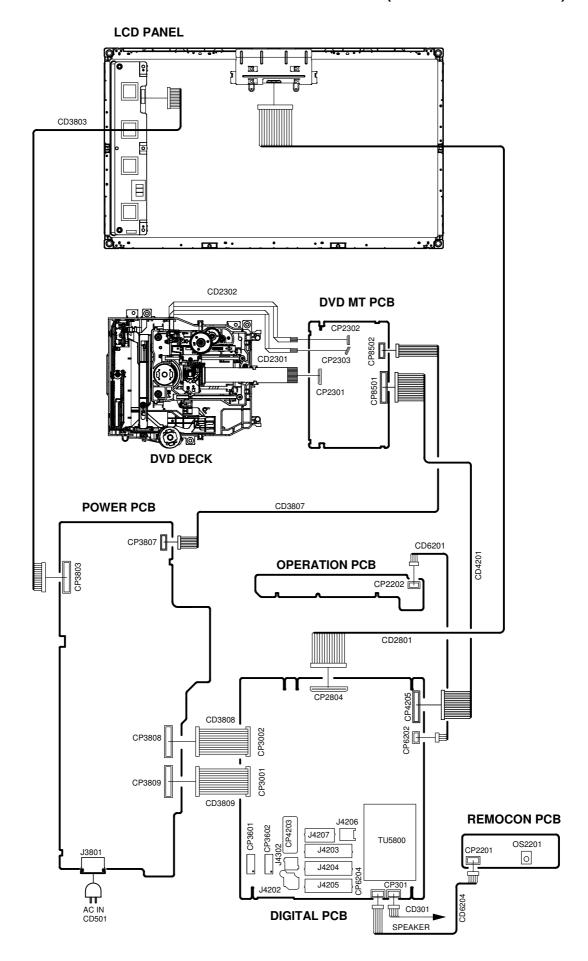
Please check if the fixed values of each of the adjustment item is set correctly referring below. (TV/AV/COMPONENT/HDMI/PC/DVD/DTV)

		<b>-</b> .,	A۱	V		COMP	ONENT				НС	OMI			DVI:	>HDMI				PC				D1 / T			DTV		$\overline{}$		
NO.	FUNCTION	TV	TV CVBS		CVBS Y/C		480i	480p	720p	1080i	VGA	480i	480p	720p	1080i	1080p	VGA	XGA	640×480	720×400	800×600	1024×768	1280×768	1280×720	1360×768	DVD	480i	480p	720p	1080i	1080P
		Step No.	Step	No.		Ste	p No.				Step	No.	l		Step	No.			I	Step No.	1			Step No.			Step No.				
03	R.DRIVE (N)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
04	R CUTOFF (N)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	G DRIVE (N)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
06	G CUTOFF (N)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
07	B DRIVE (N)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
08	B CUTOFF (N)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
09	R.DRIVE (C)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
10	R CUTOFF (C)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
11	G DRIVE (C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
12	G CUTOFF (C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	B DRIVE (C)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	B CUTOFF (C)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
15	R.DRIVE (W)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	R CUTOFF (W)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
	G DRIVE (W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
18	G CUTOFF (W)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
19	B DRIVE (W)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
20	B CUTOFF (W)	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
29	BAK LIGHT CENT	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61		
30	BAK LIGHT MAX	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
31	BAK LIGHT MIN	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22		
	BRIGHTNESS CENT	122	122	122	117	120	120	120	119	119	119	119	119	119	120	120	119	119	119	119	119	119	119	120	115	115	115	115	123		
33	BRIGHTNESS MAX	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200		
34	BRIGHTNESS MIN	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
35	TINT	41	41	41	41	41	41	41	41	41	41	41	41	41	50	50	50	50	50	50	50	50	50	50	41	41	41	41	41		
36	SHARP H1 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
37	SHARP H1 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
38	SHARP H2 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
39	SHARP H2 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
40	SHARP H3 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
41	SHARP H3 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
42	SHARP H4 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
43	SHARP H4 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
44	SHARP H5 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
45	SHARP H5 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
46	SHARP V1 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
47	SHARP V1 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
48	SHARP V2 MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
49	SHARP V2 MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
50	CONTRAST CENTER	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
51	CONTRAST MAX	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
52	CONTRAST MIN	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
53	COLOR CENTER	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		
54	COLOR MAX	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255		
55	COLOR MIN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
	CONTRAST 40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*		

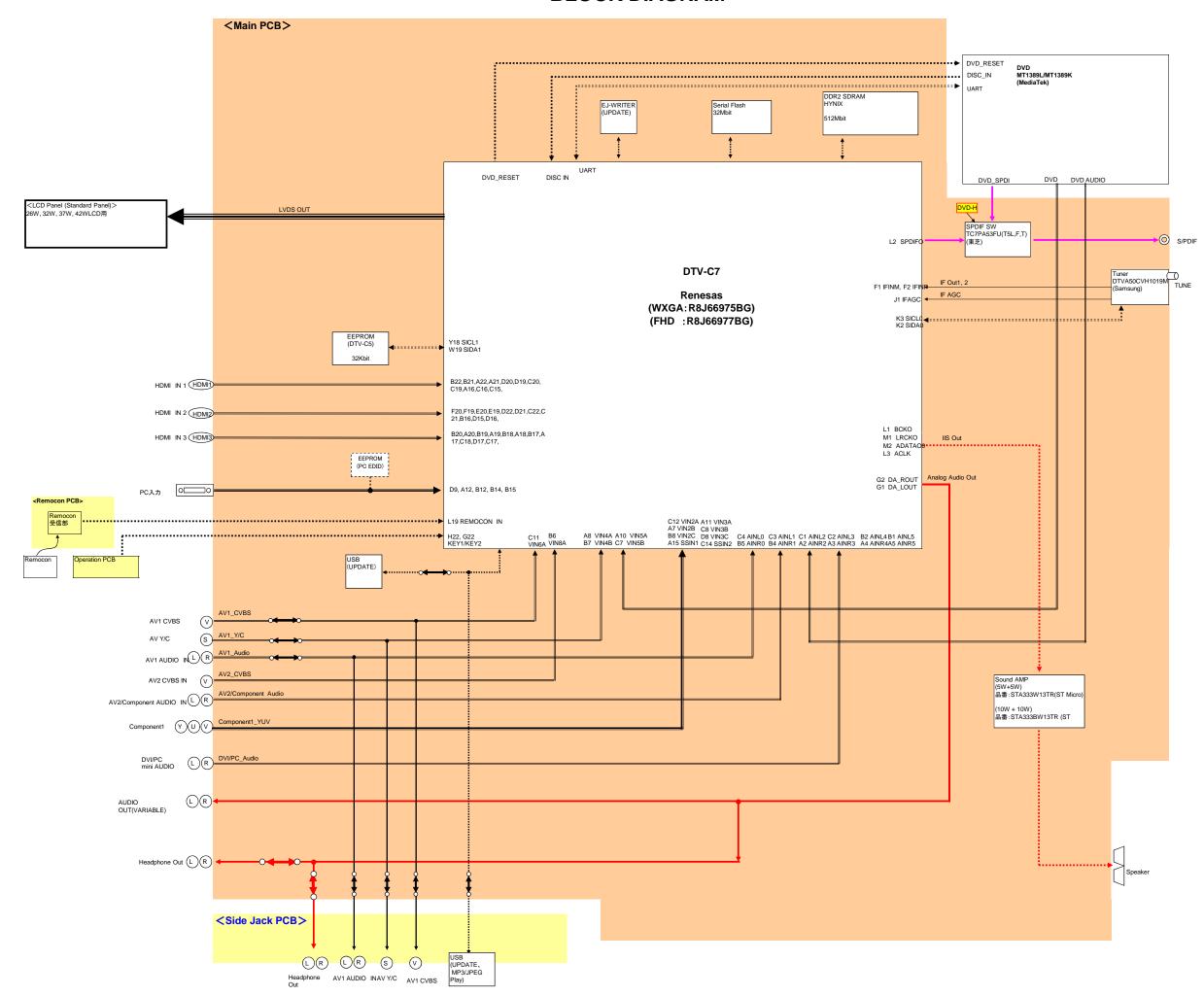
D-4

D-5

### 3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)



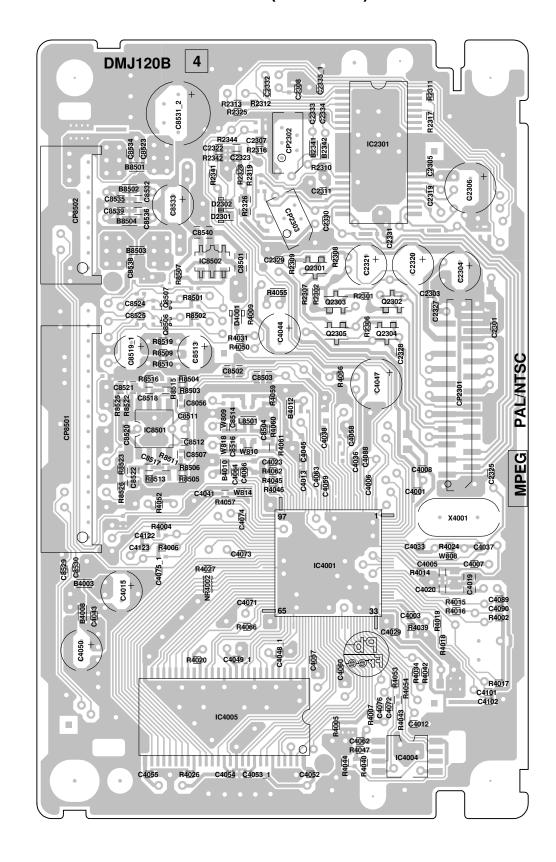
## **BLOCK DIAGRAM**

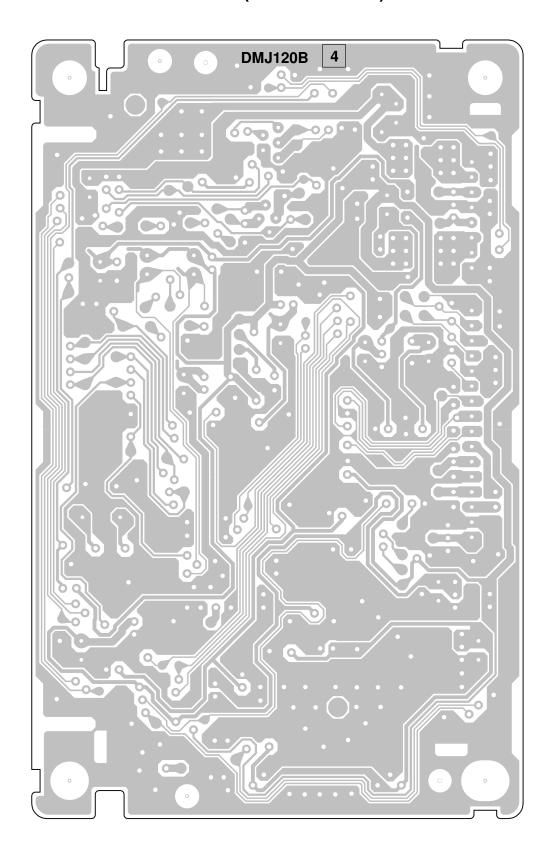


## PRINTED CIRCUIT BOARDS

DVD MT (TOP SIDE)

## DVD MT (BOTTOM SIDE)

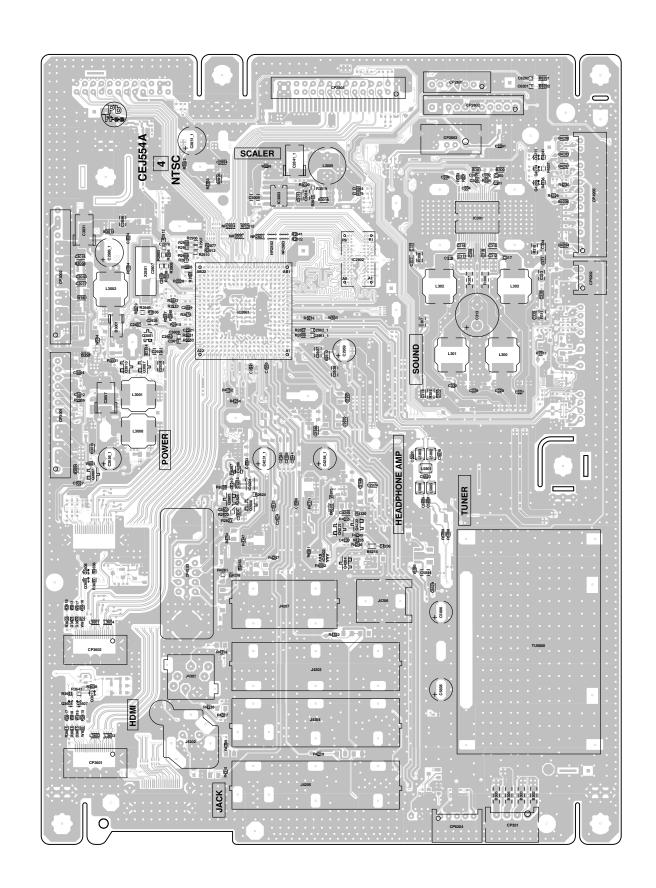


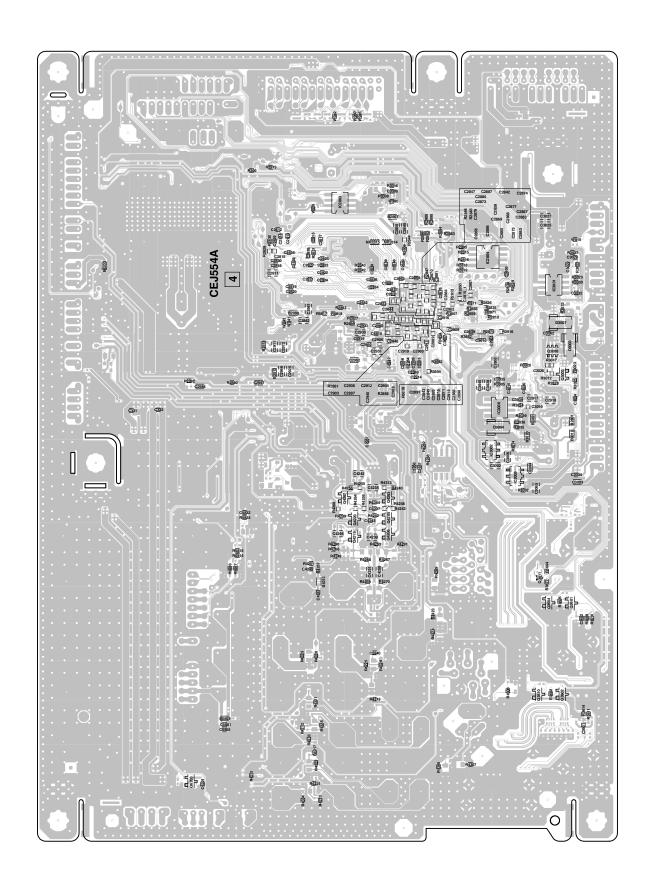


# PRINTED CIRCUIT BOARDS

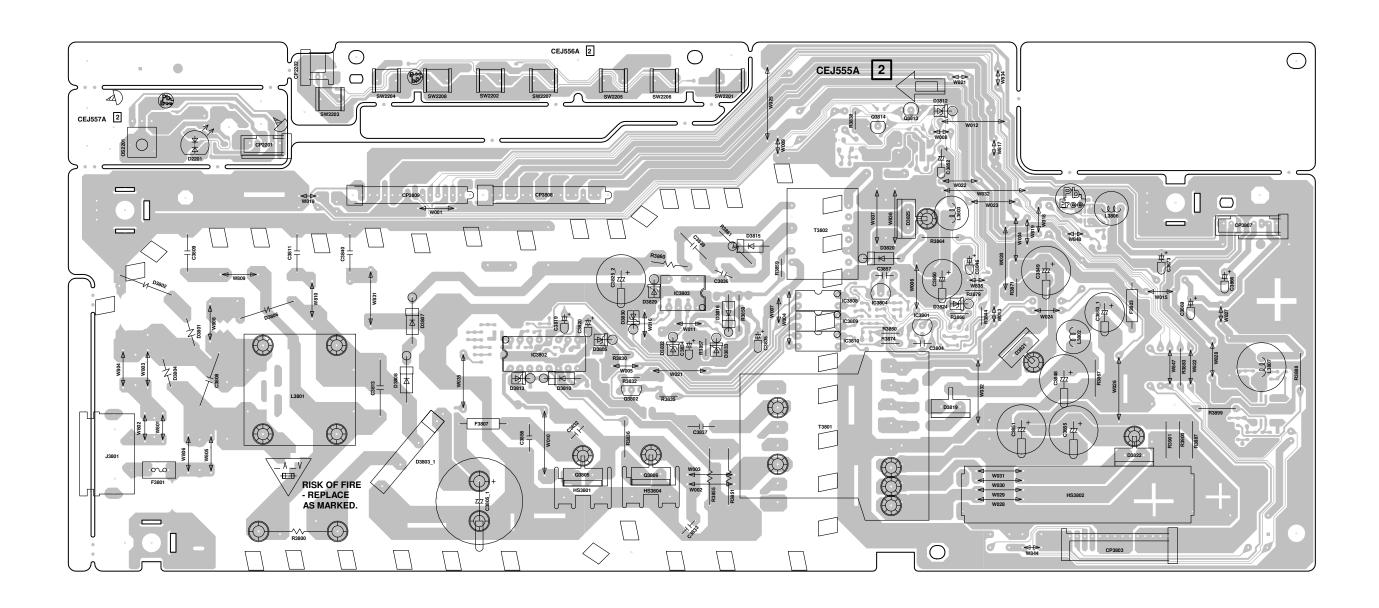
# DIGITAL (TOP SIDE)

# DIGITAL (BOTTOM SIDE)



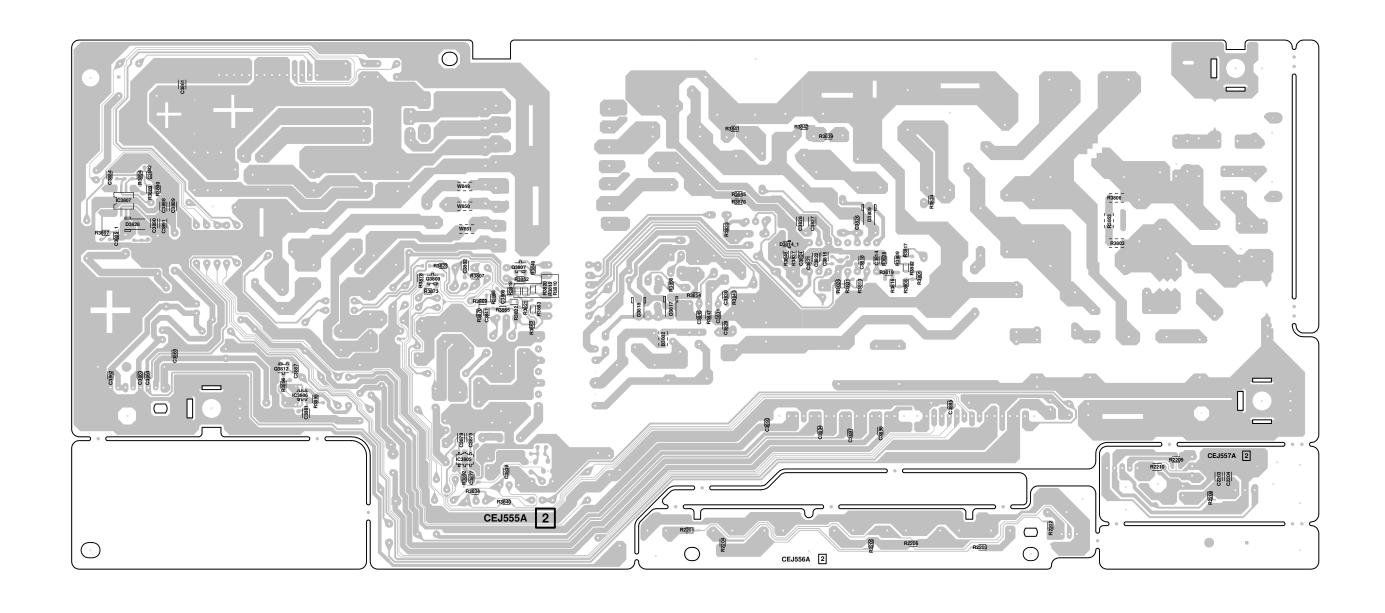


# PRINTED CIRCUIT BOARDS POWER/OPERATION/REMOCON (INSERTED PARTS) SOLDER SIDE



F-5

# PRINTED CIRCUIT BOARDS POWER/OPERATION/REMOCON (CHIP MOUNTED PARTS) SOLDER SIDE

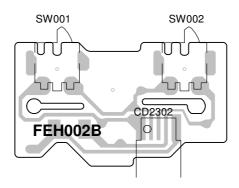


F-7

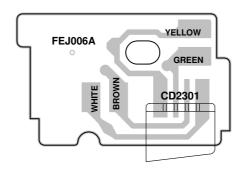
F-8

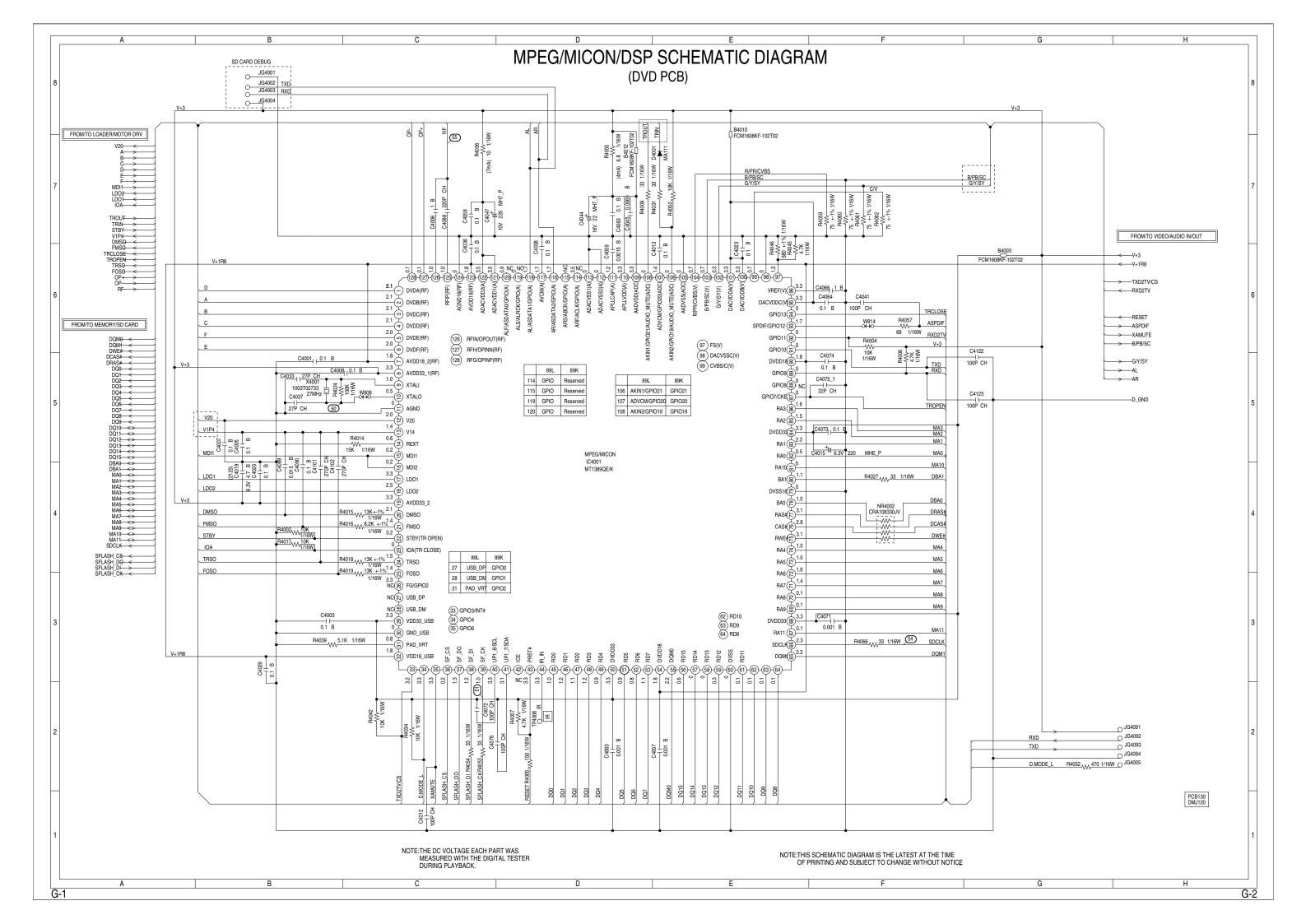
## **PRINTED CIRCUIT BOARDS**

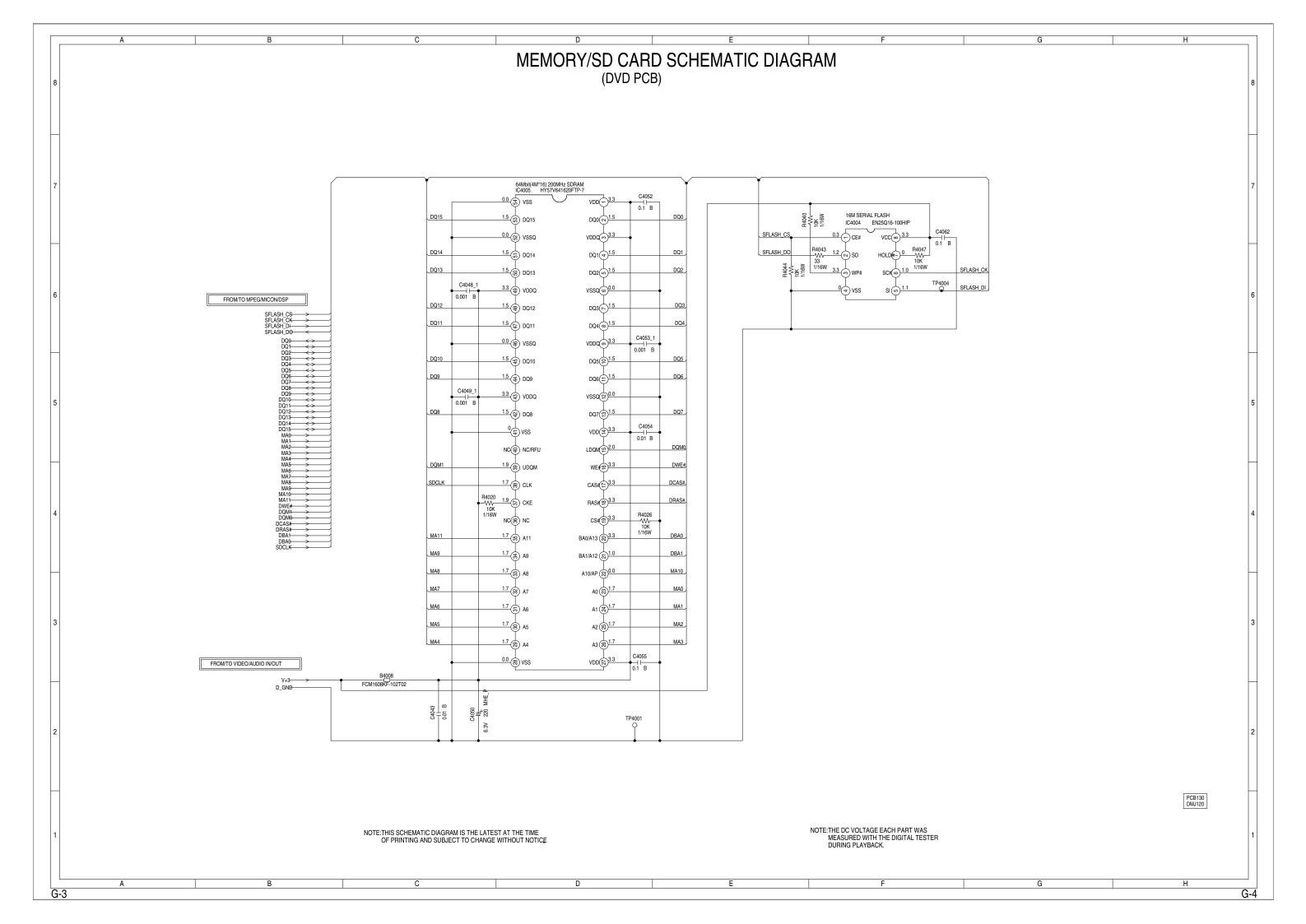
# LOADING MOTOR SOLDER SIDE

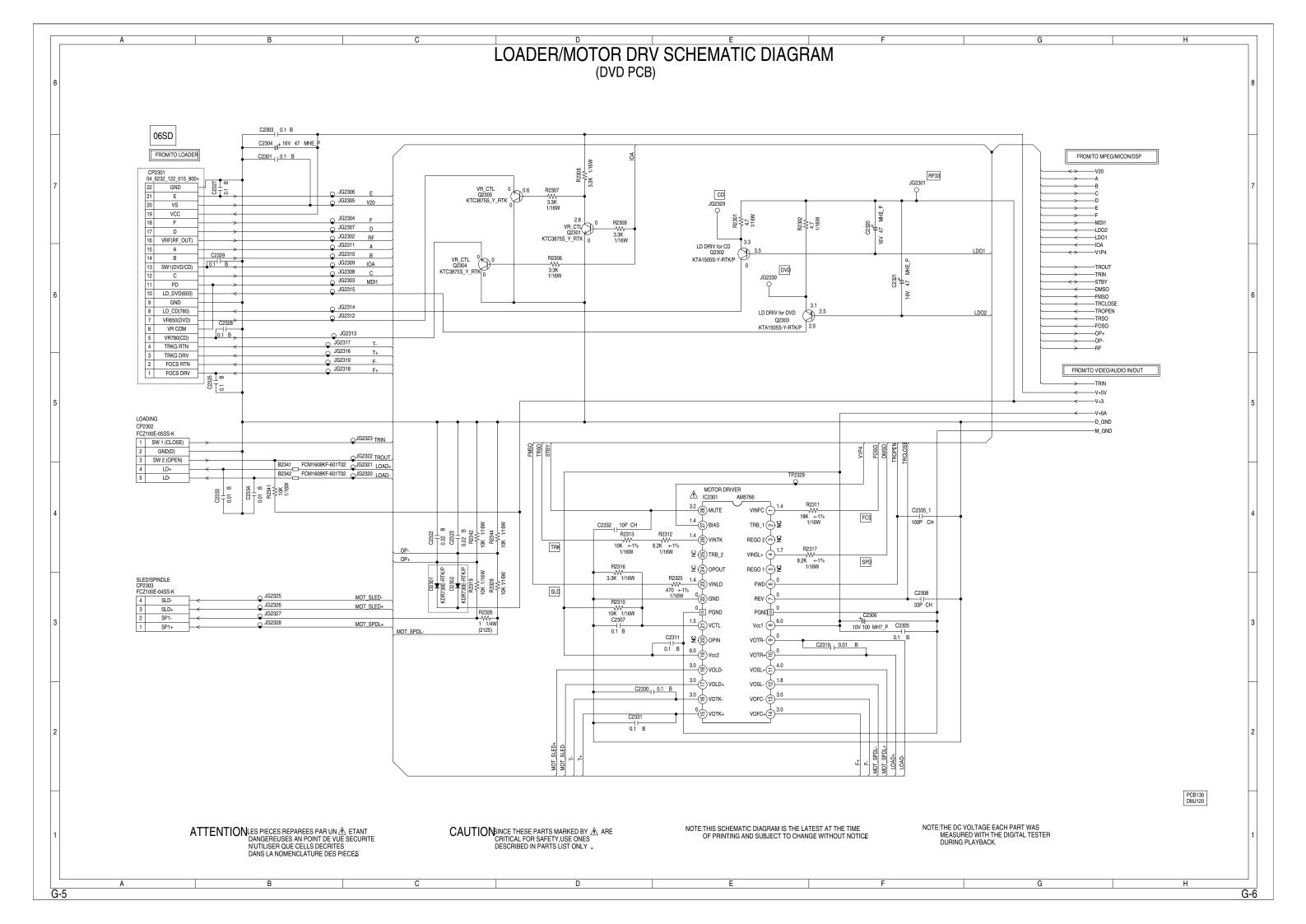


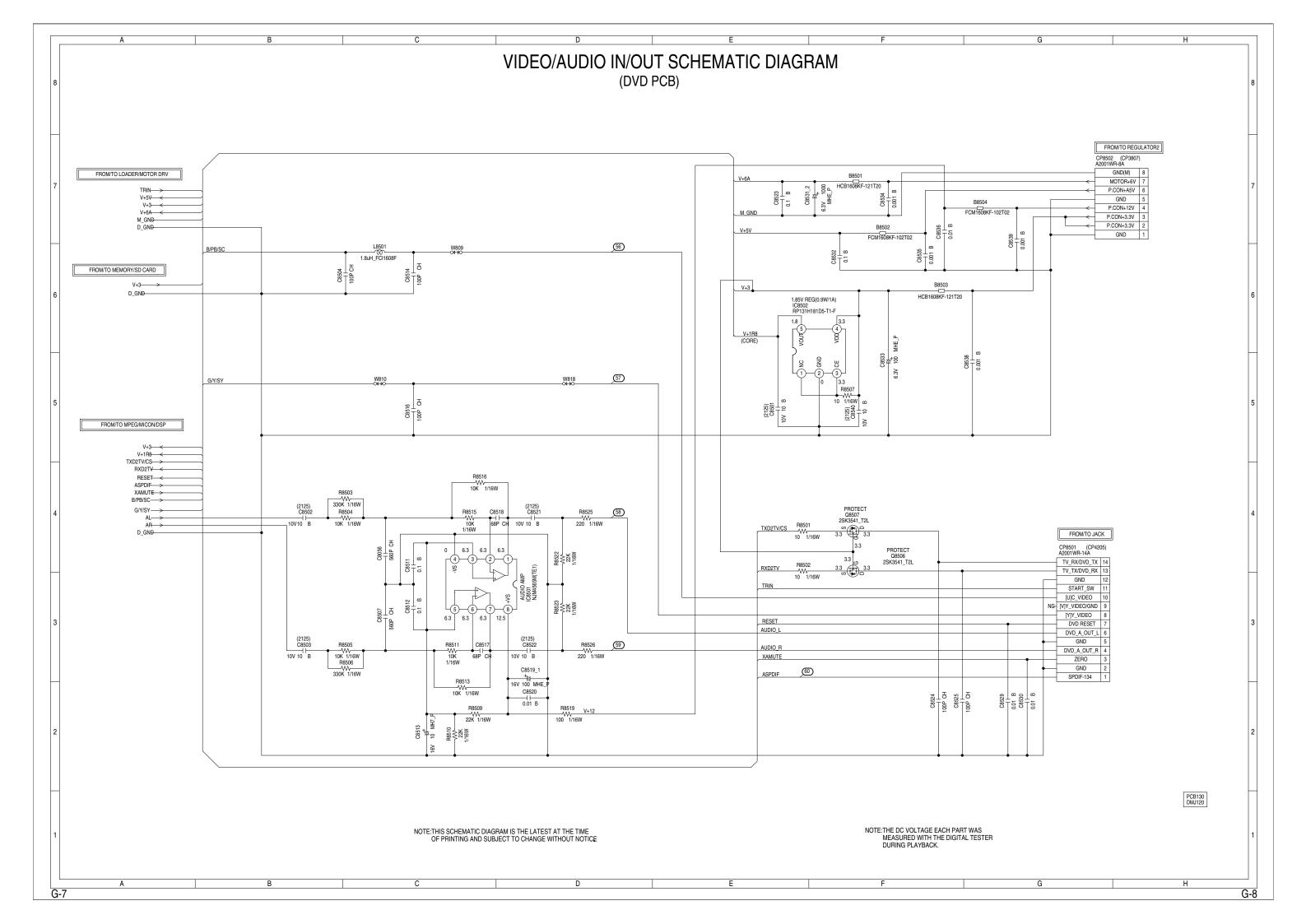
### PCB SOLDER SIDE

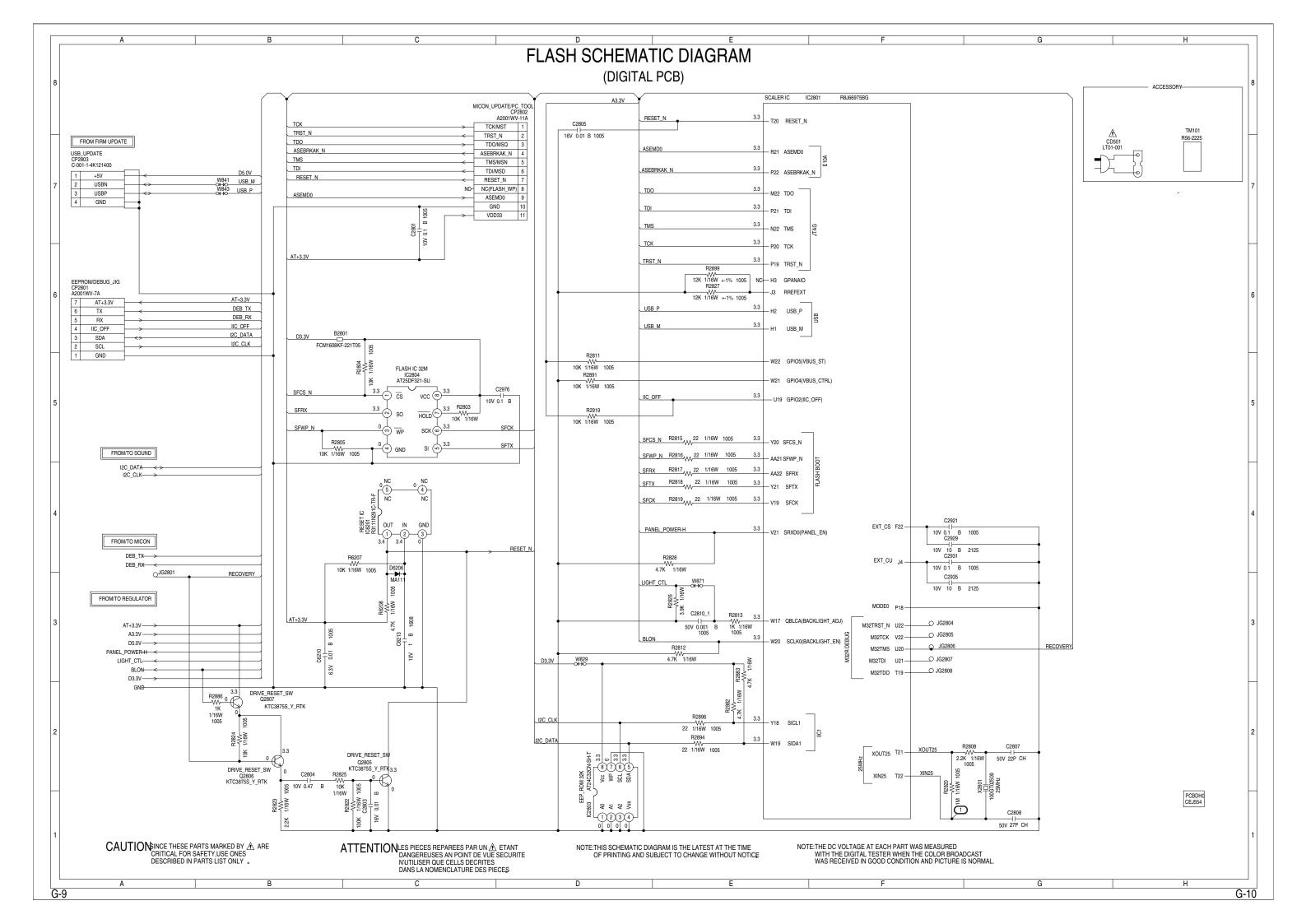


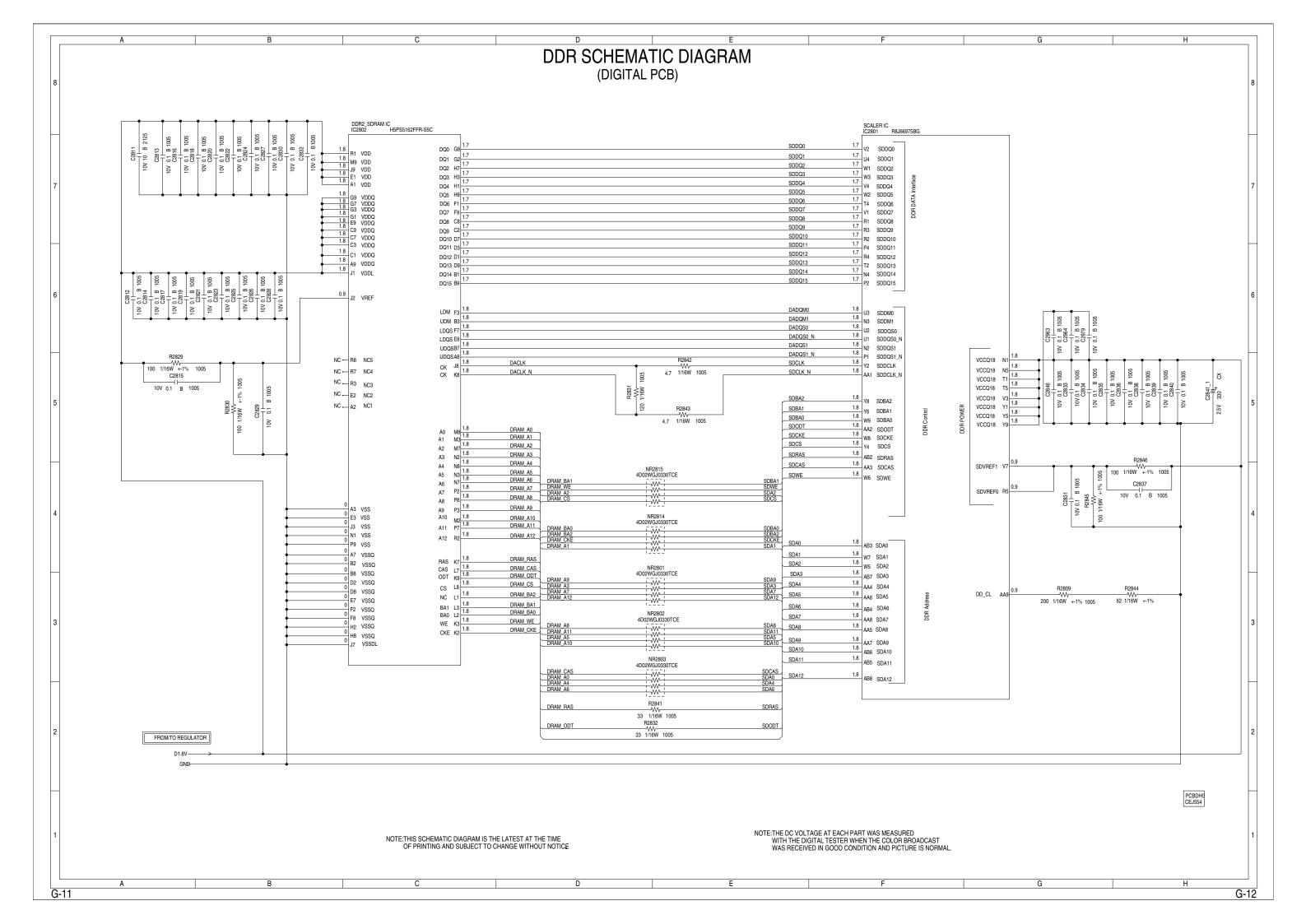


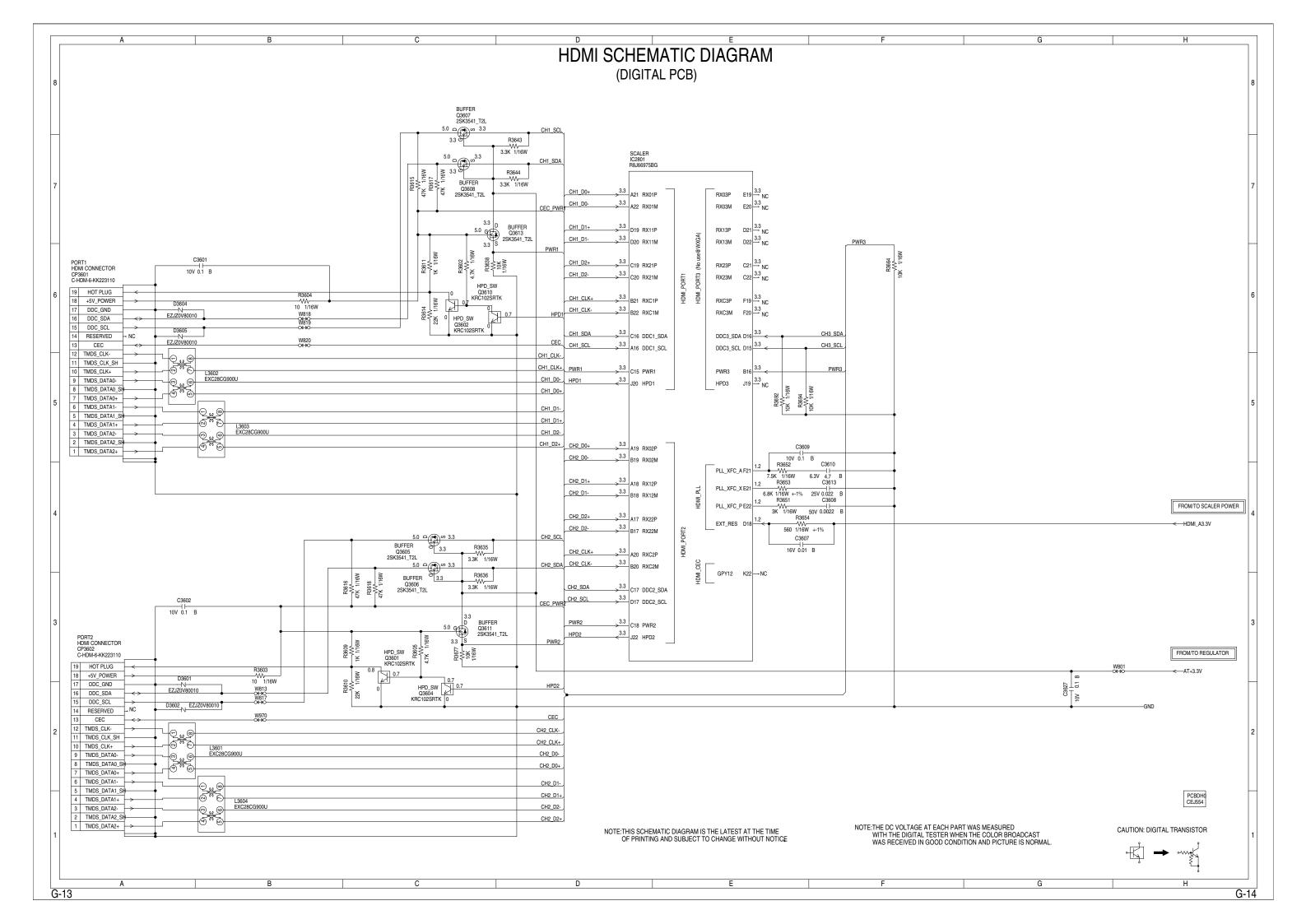


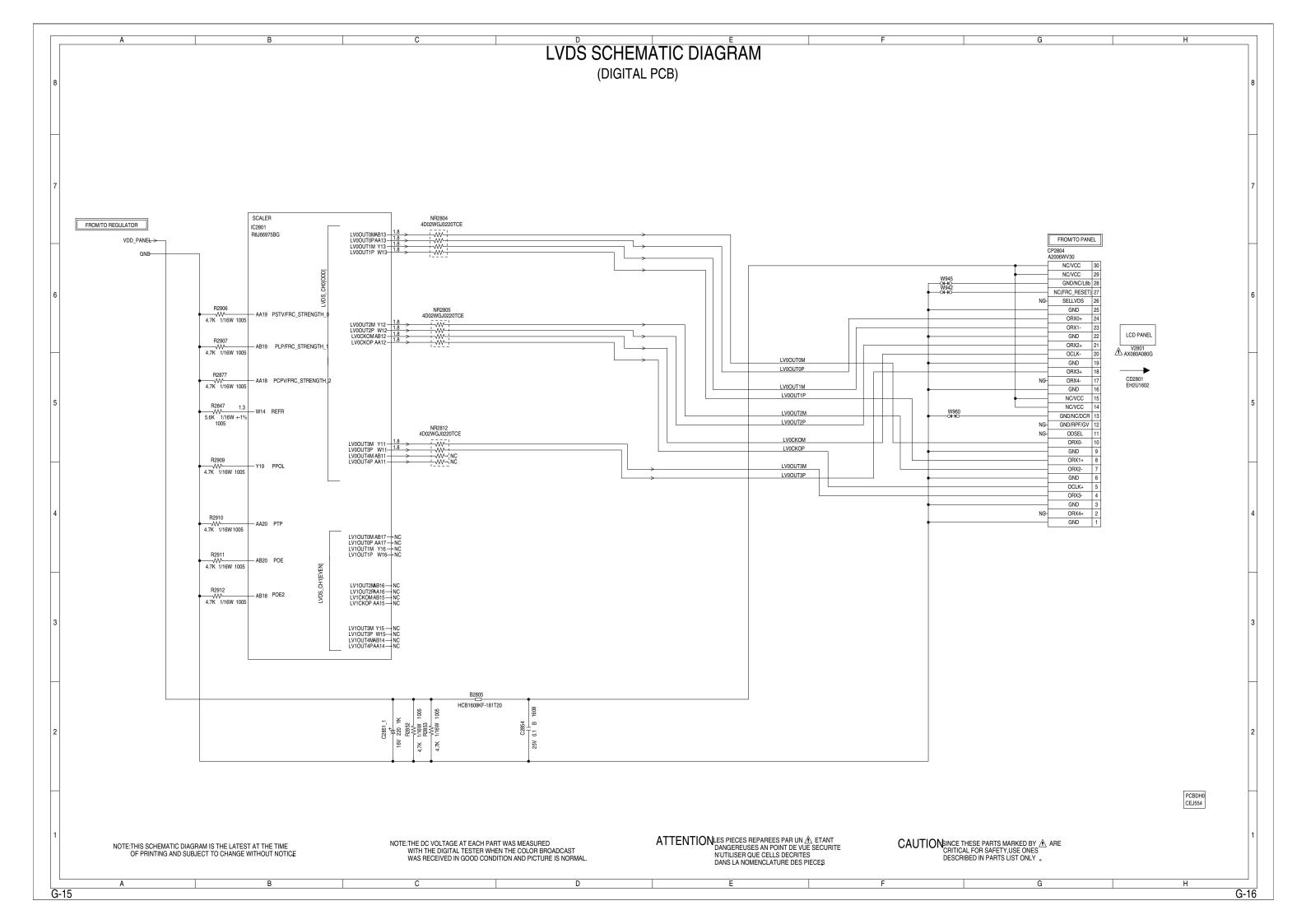


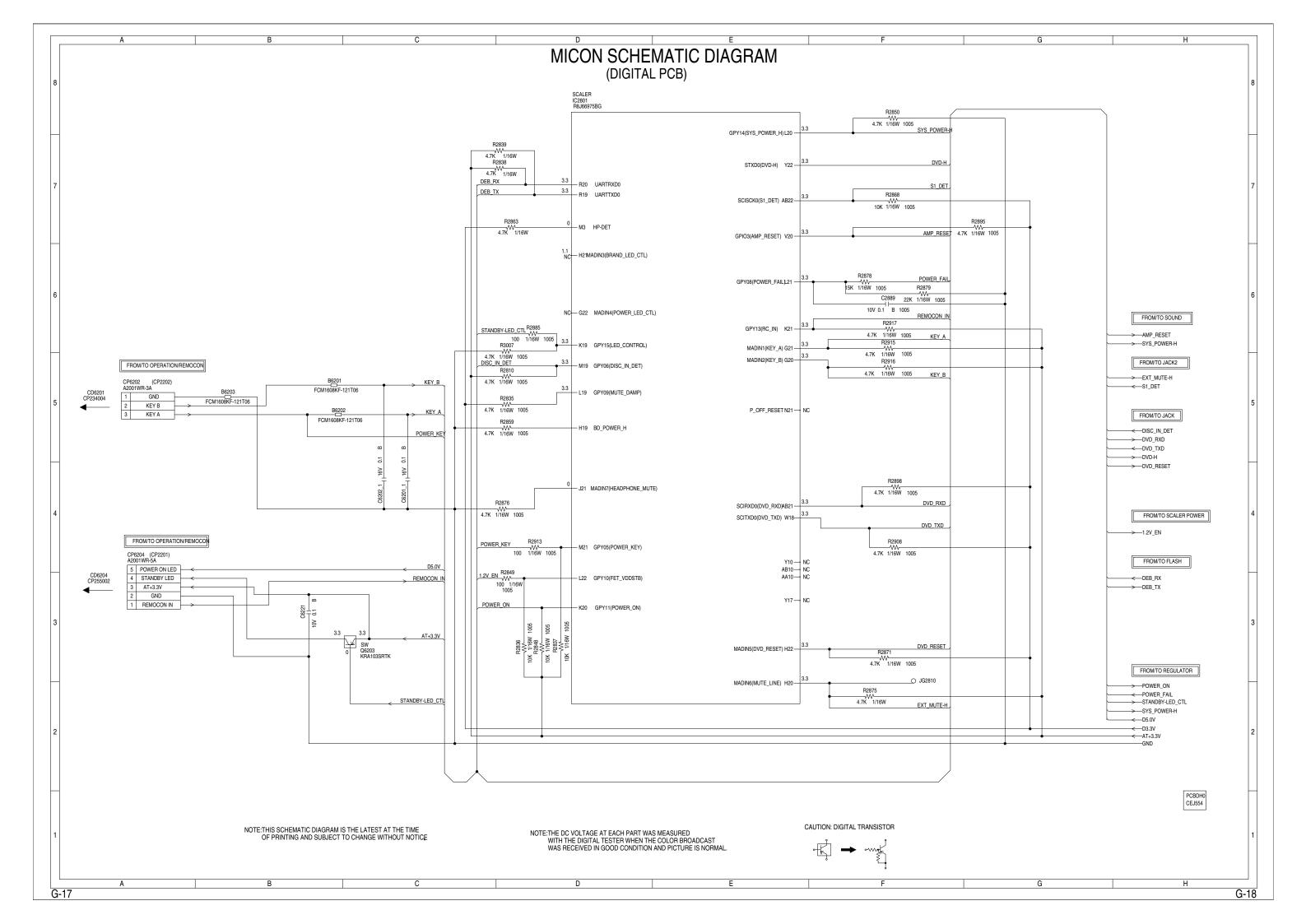


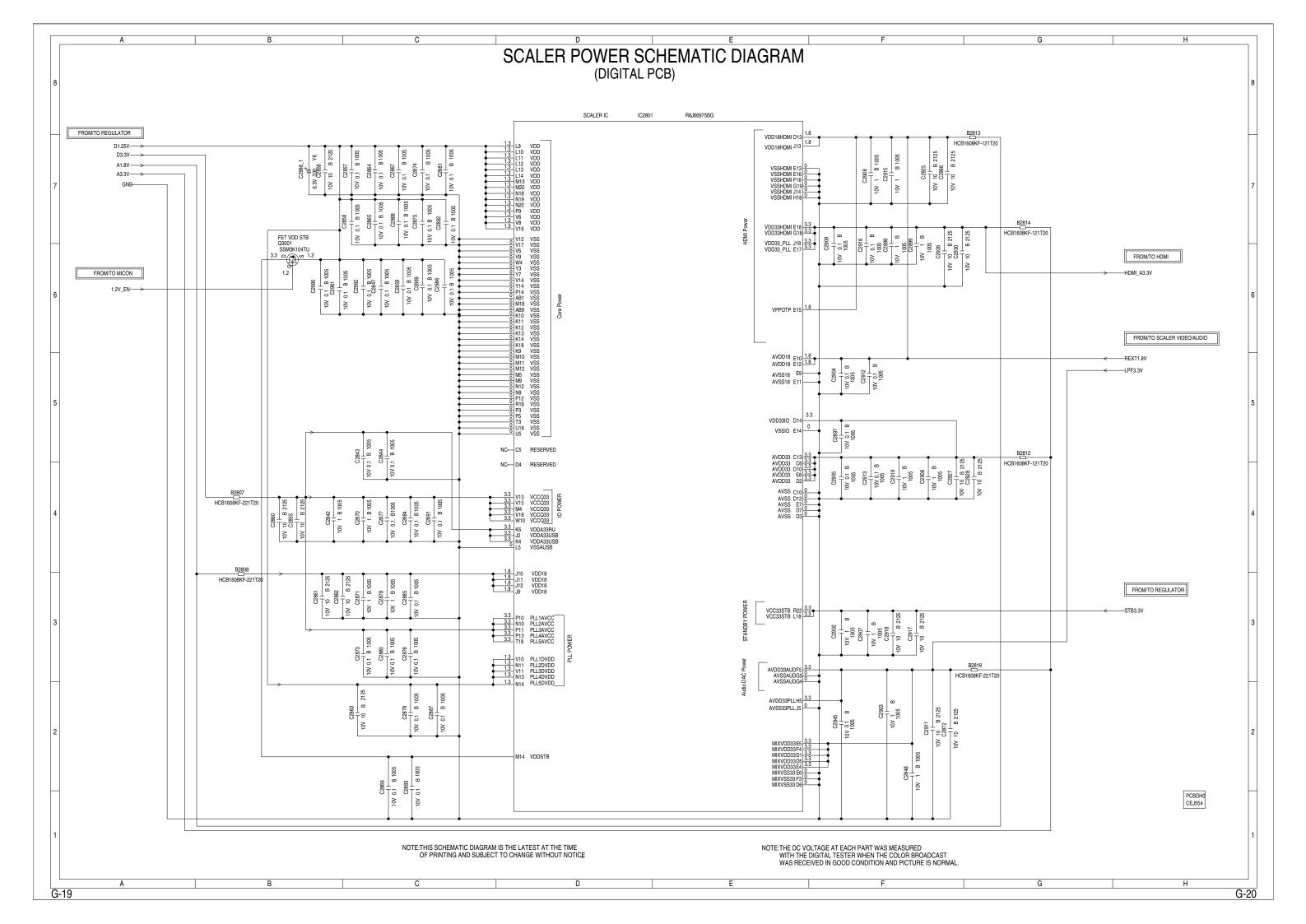


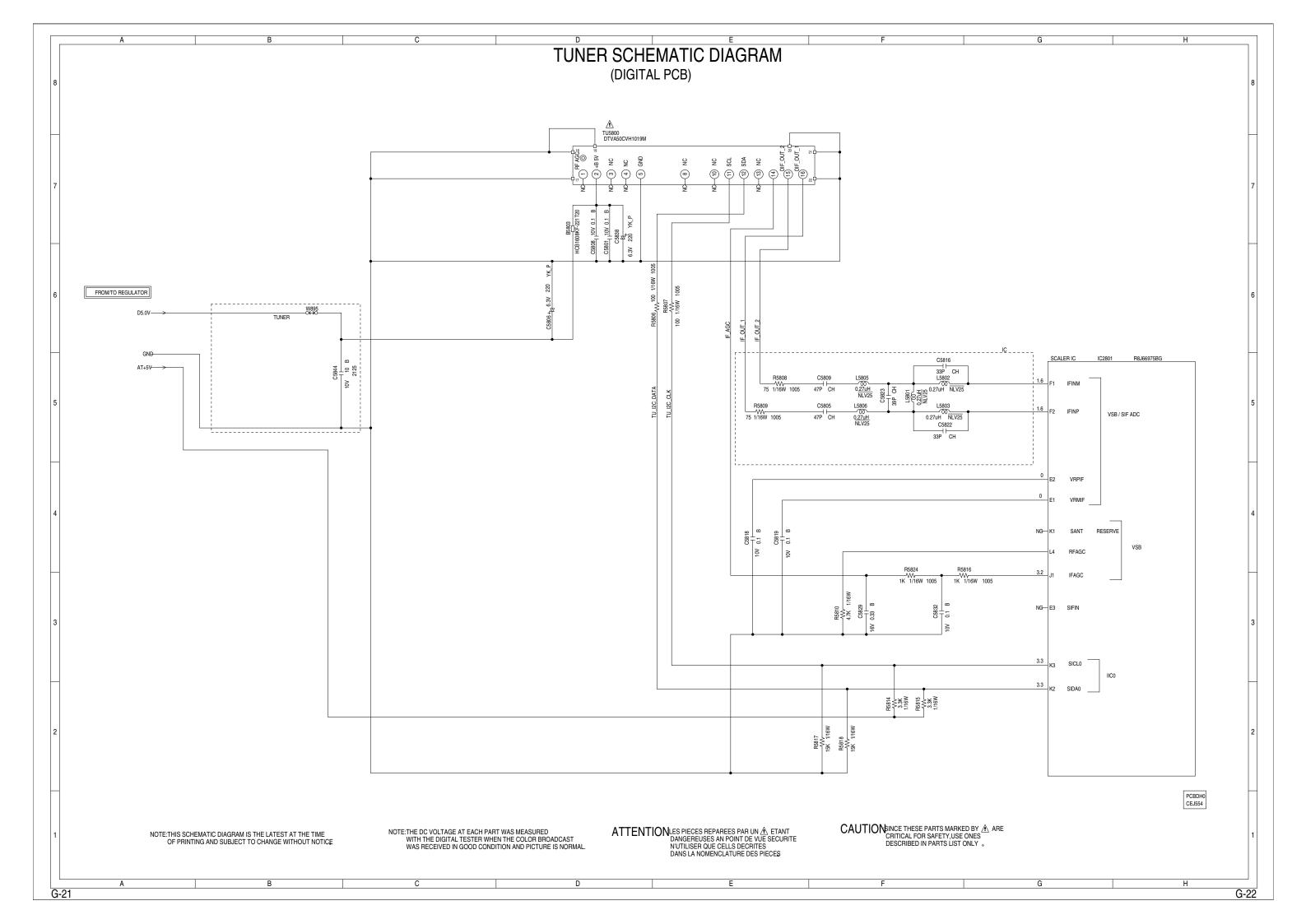


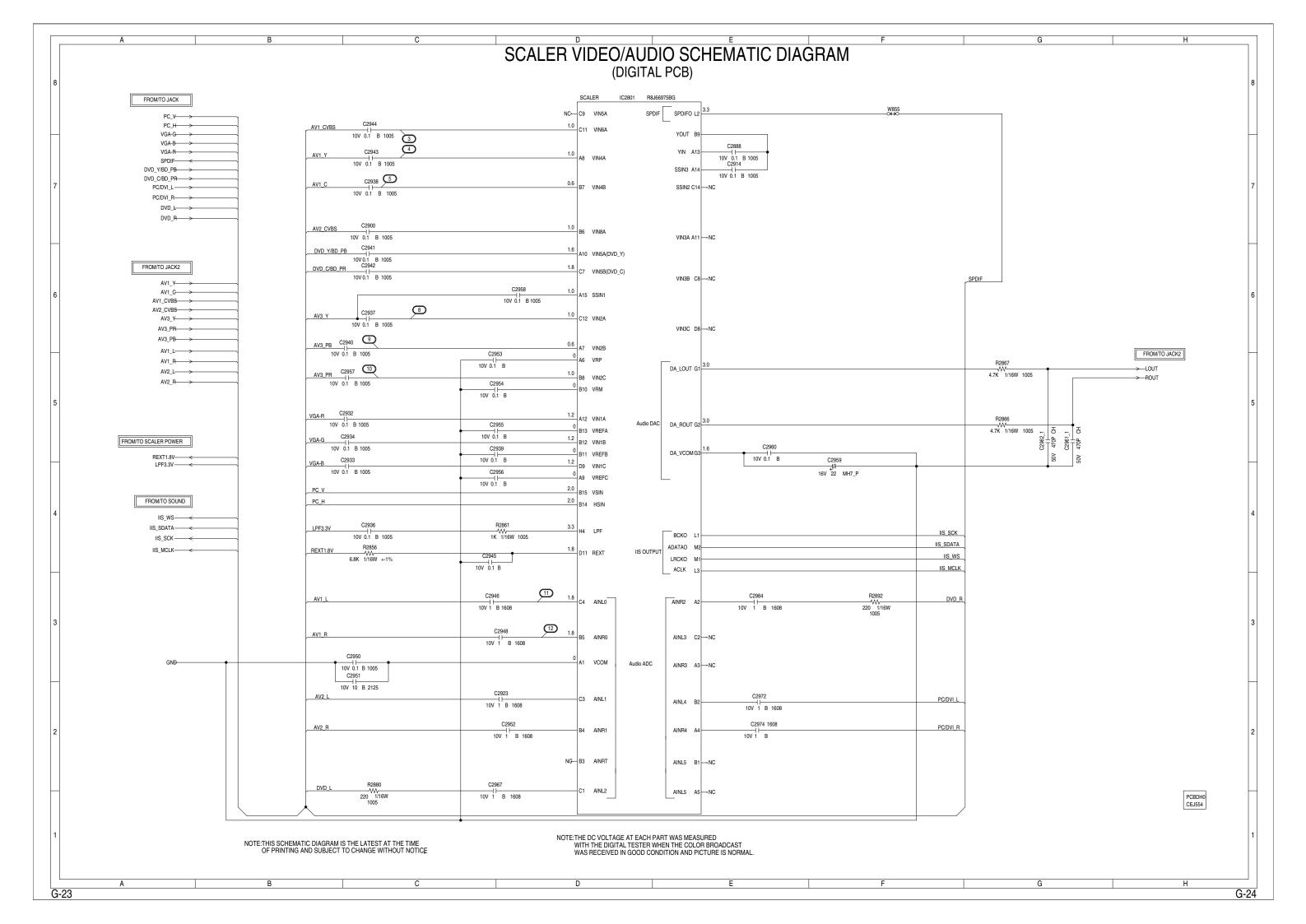


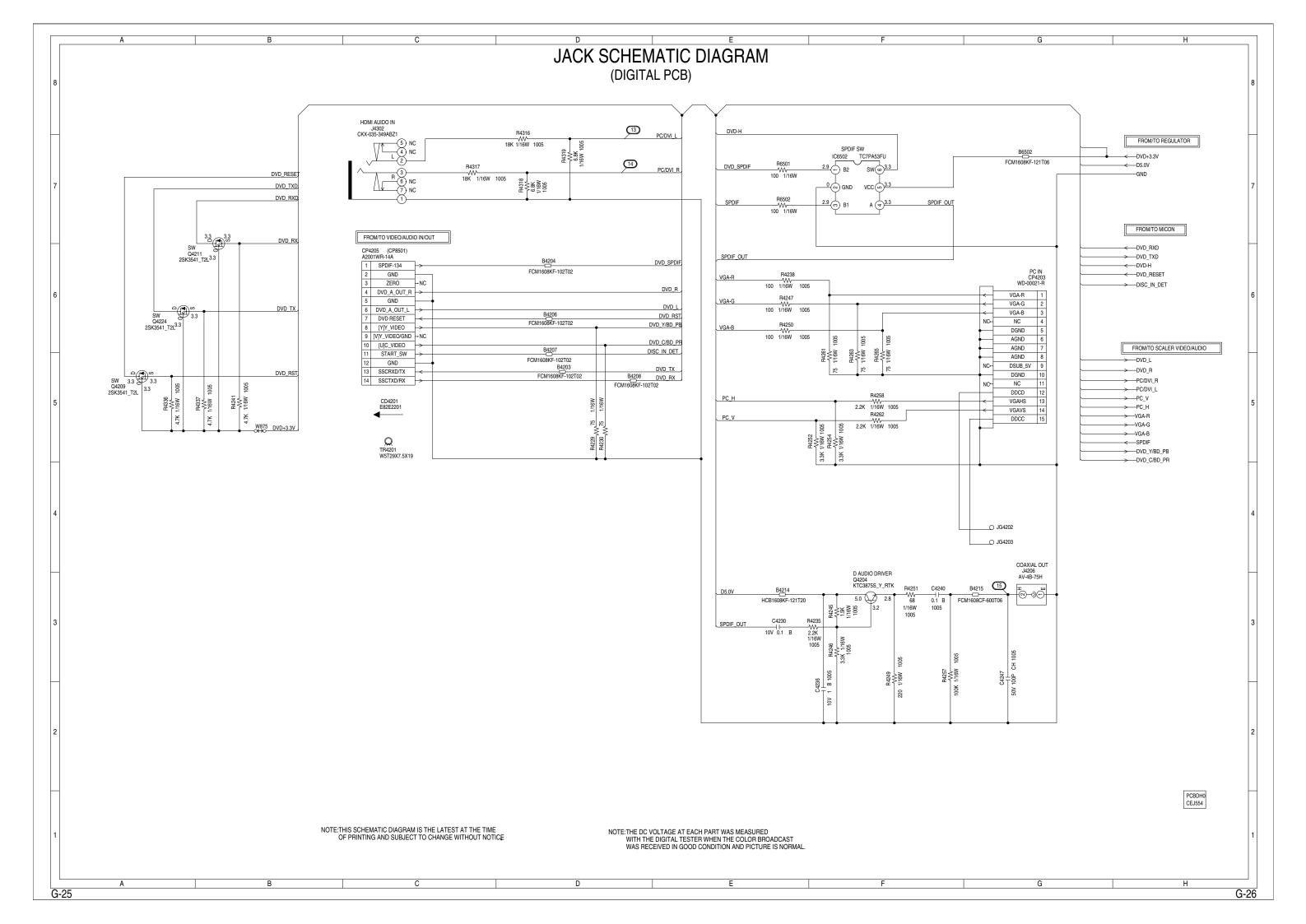


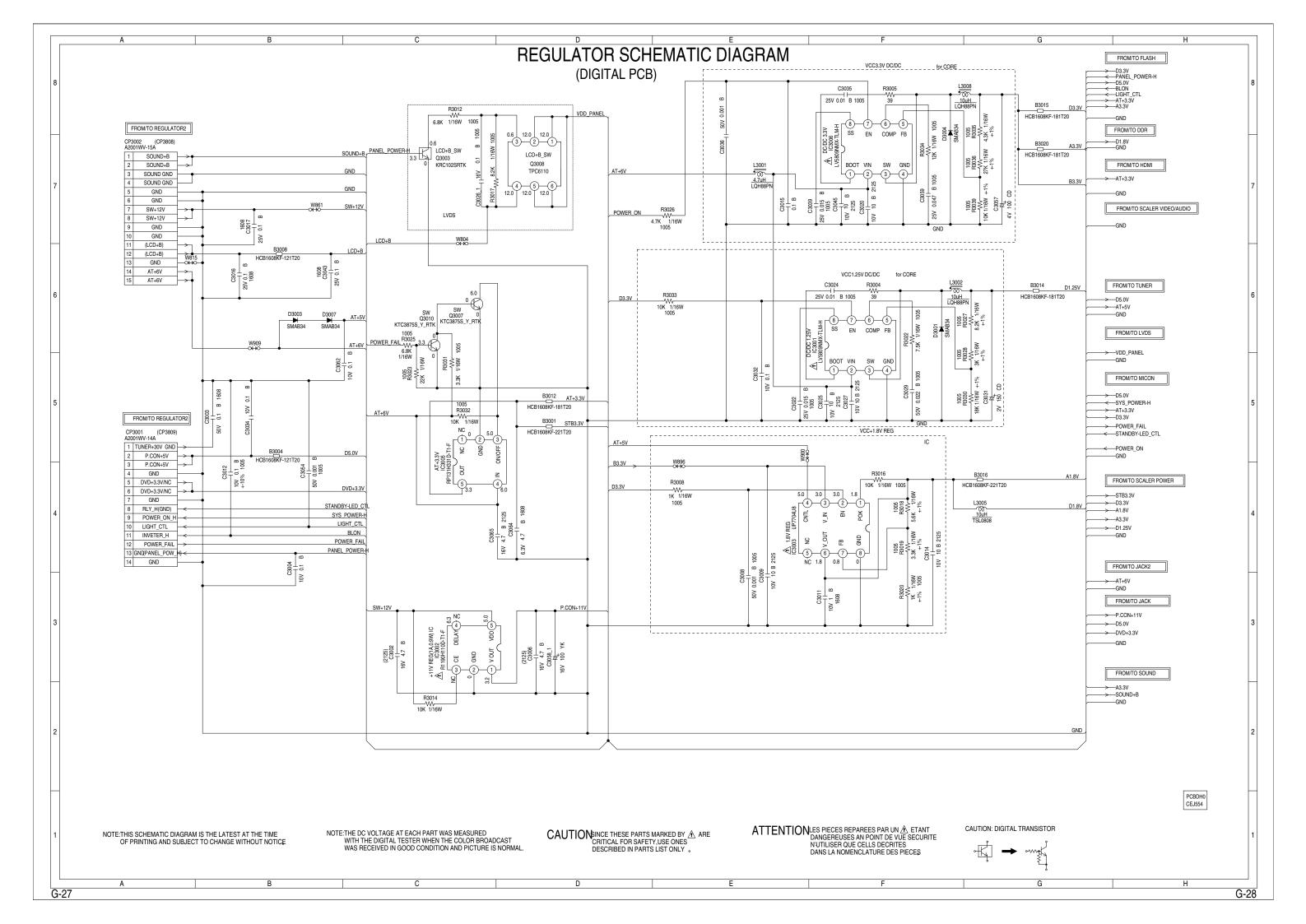


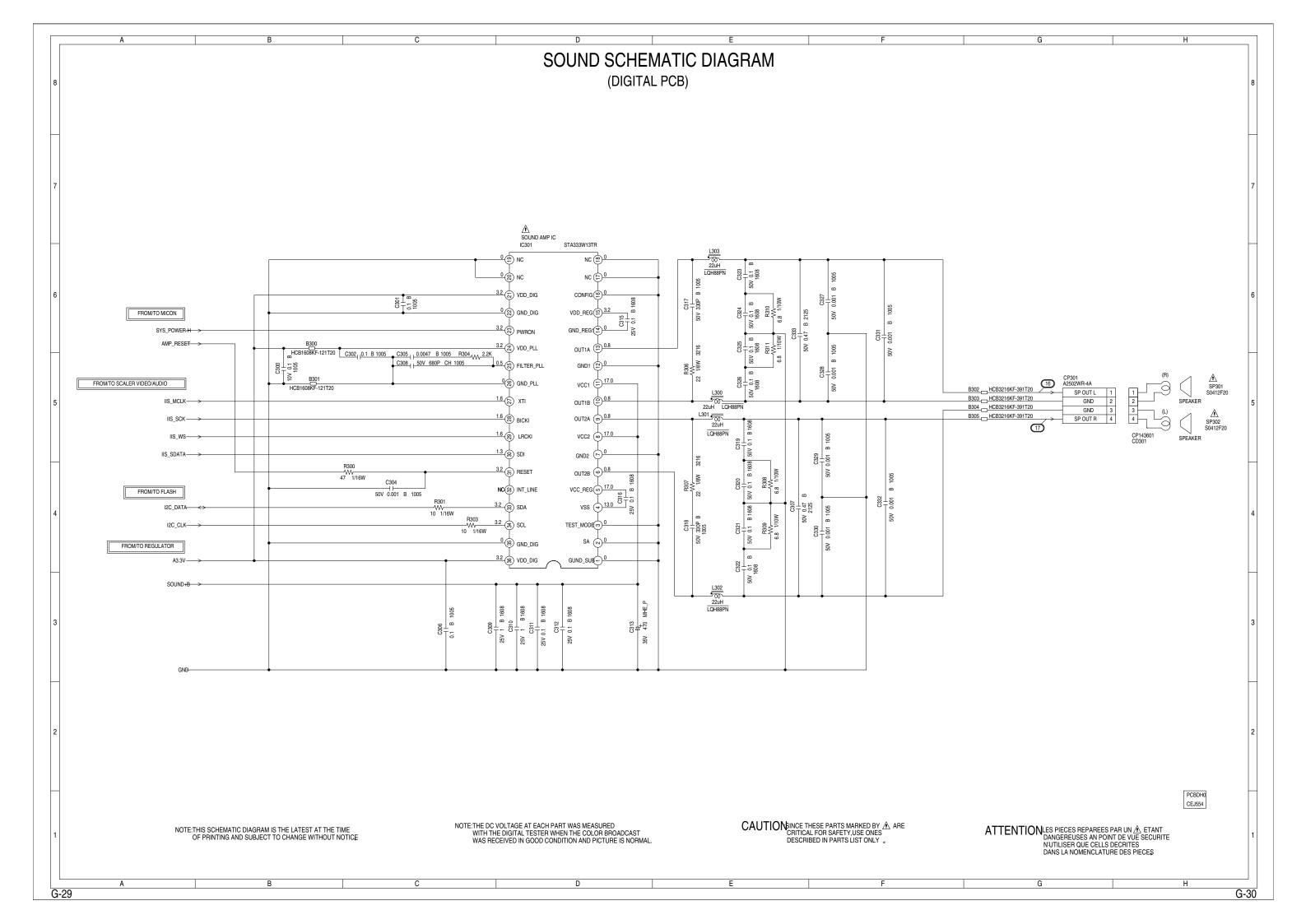


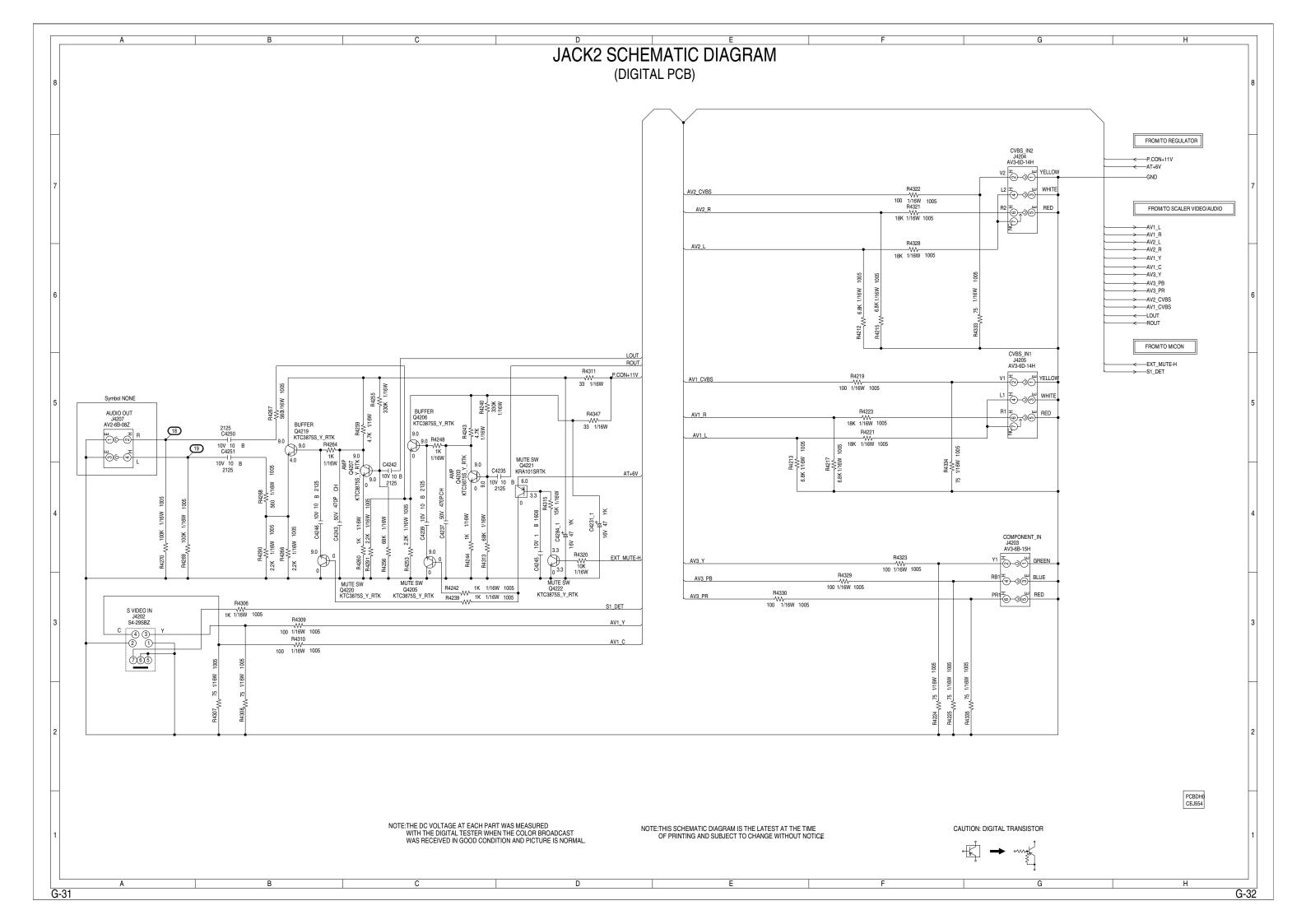


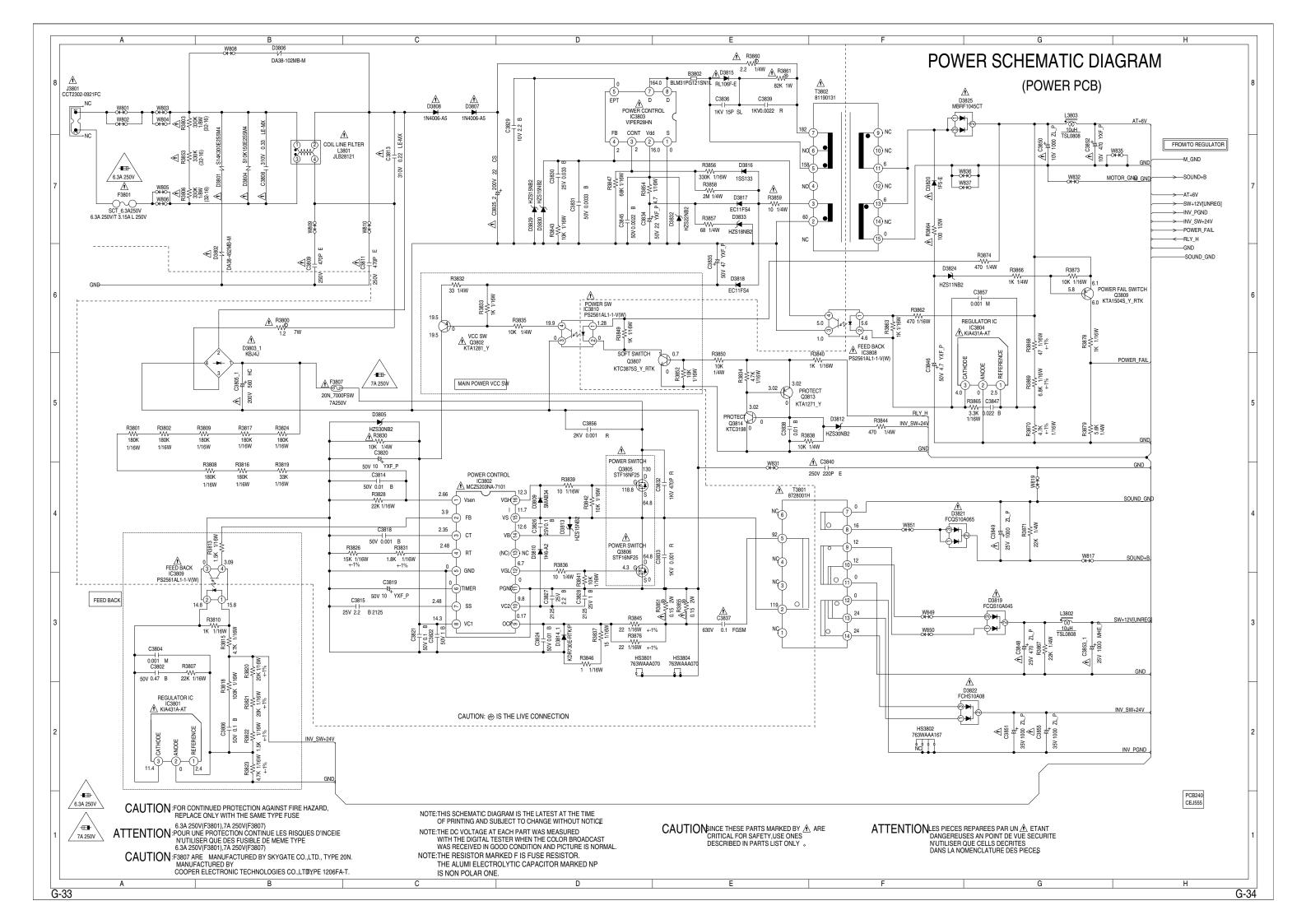


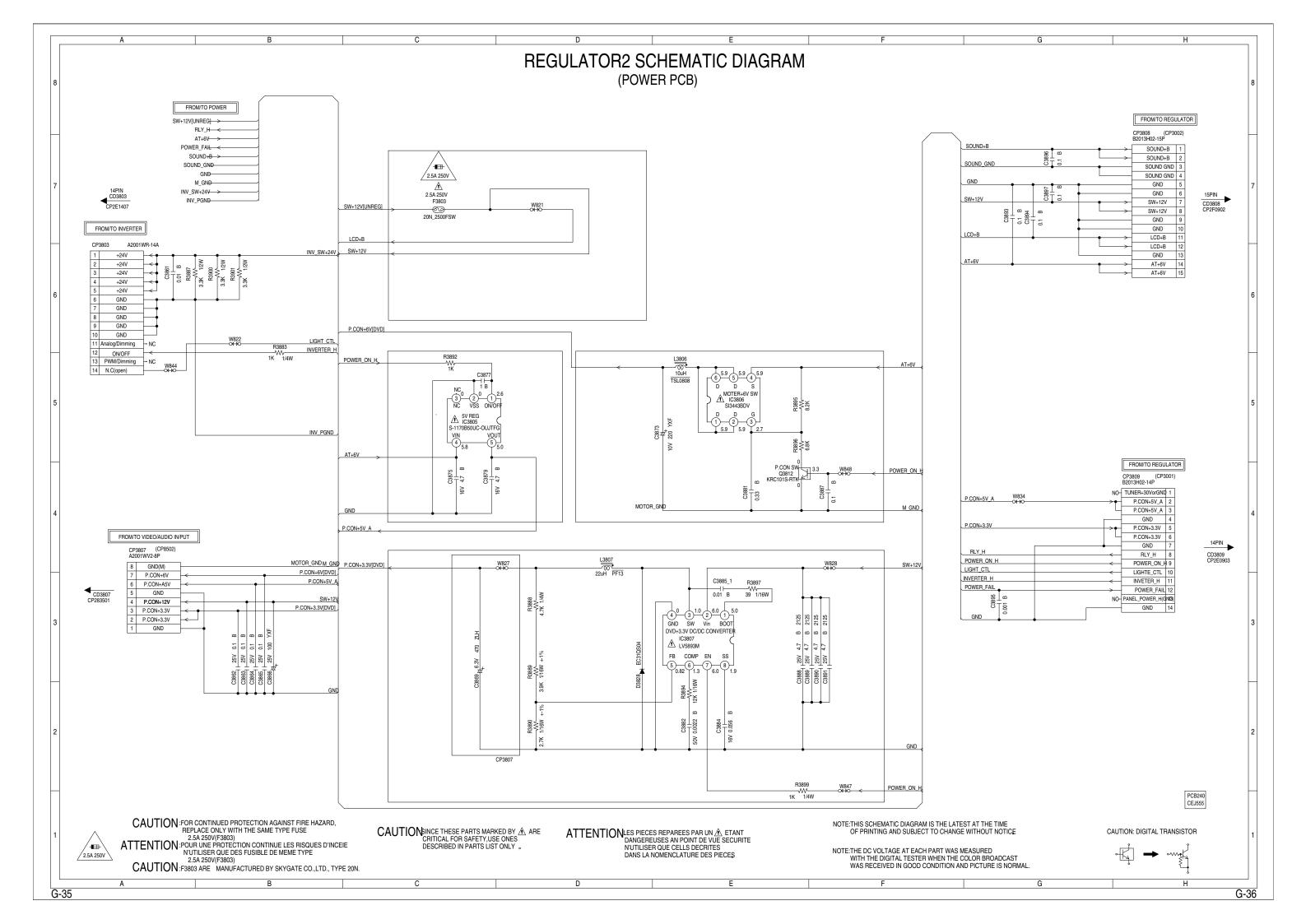


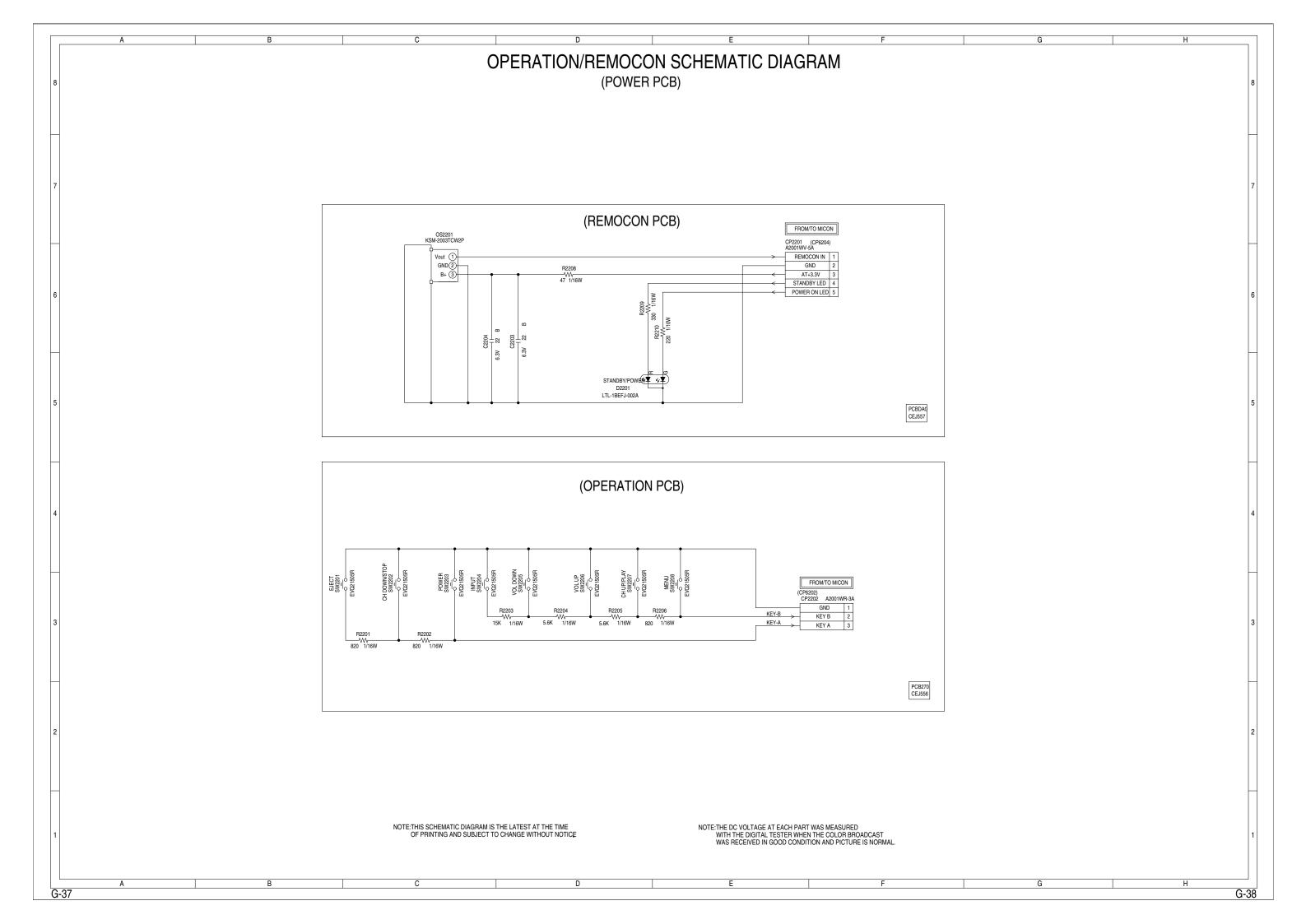


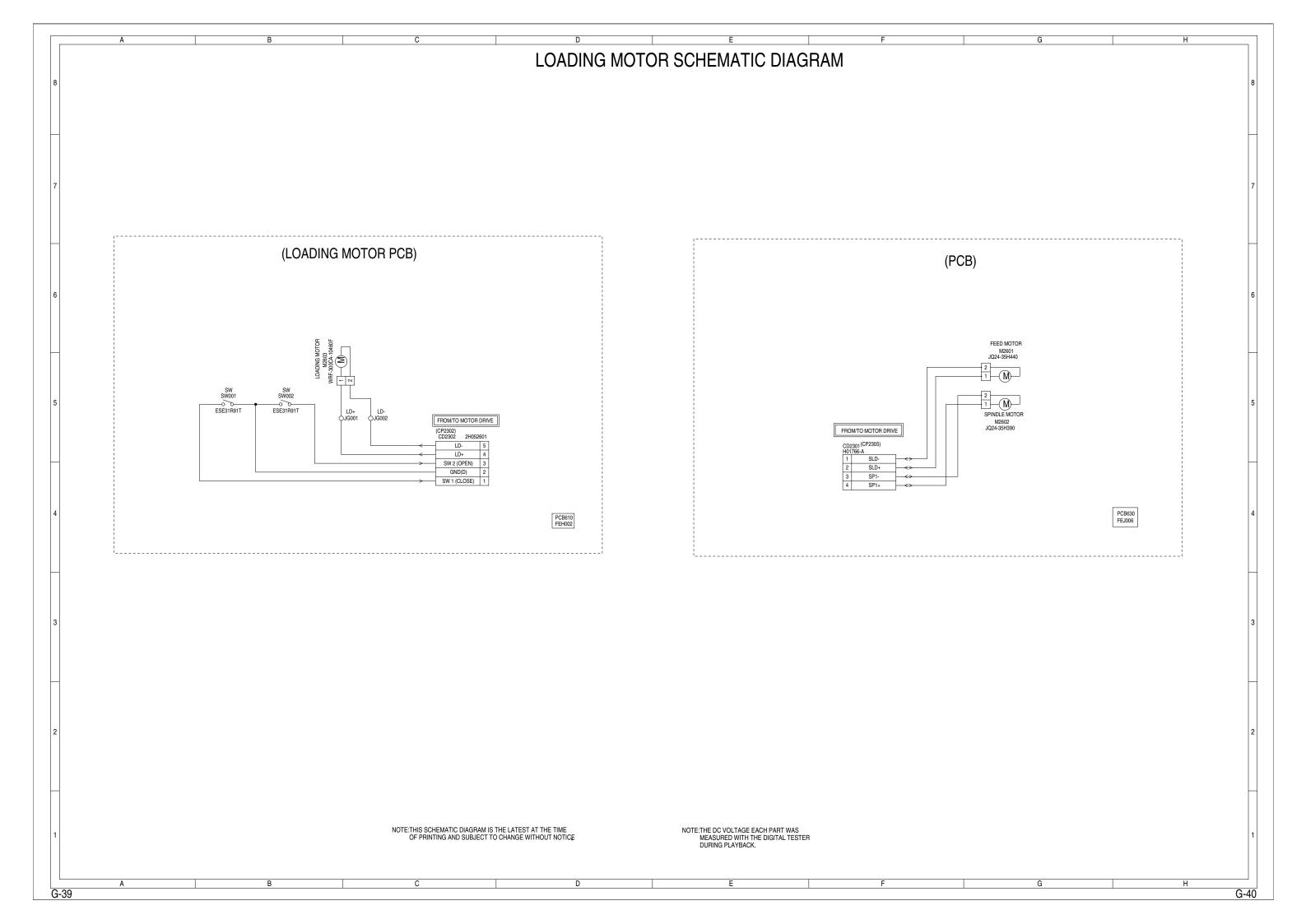


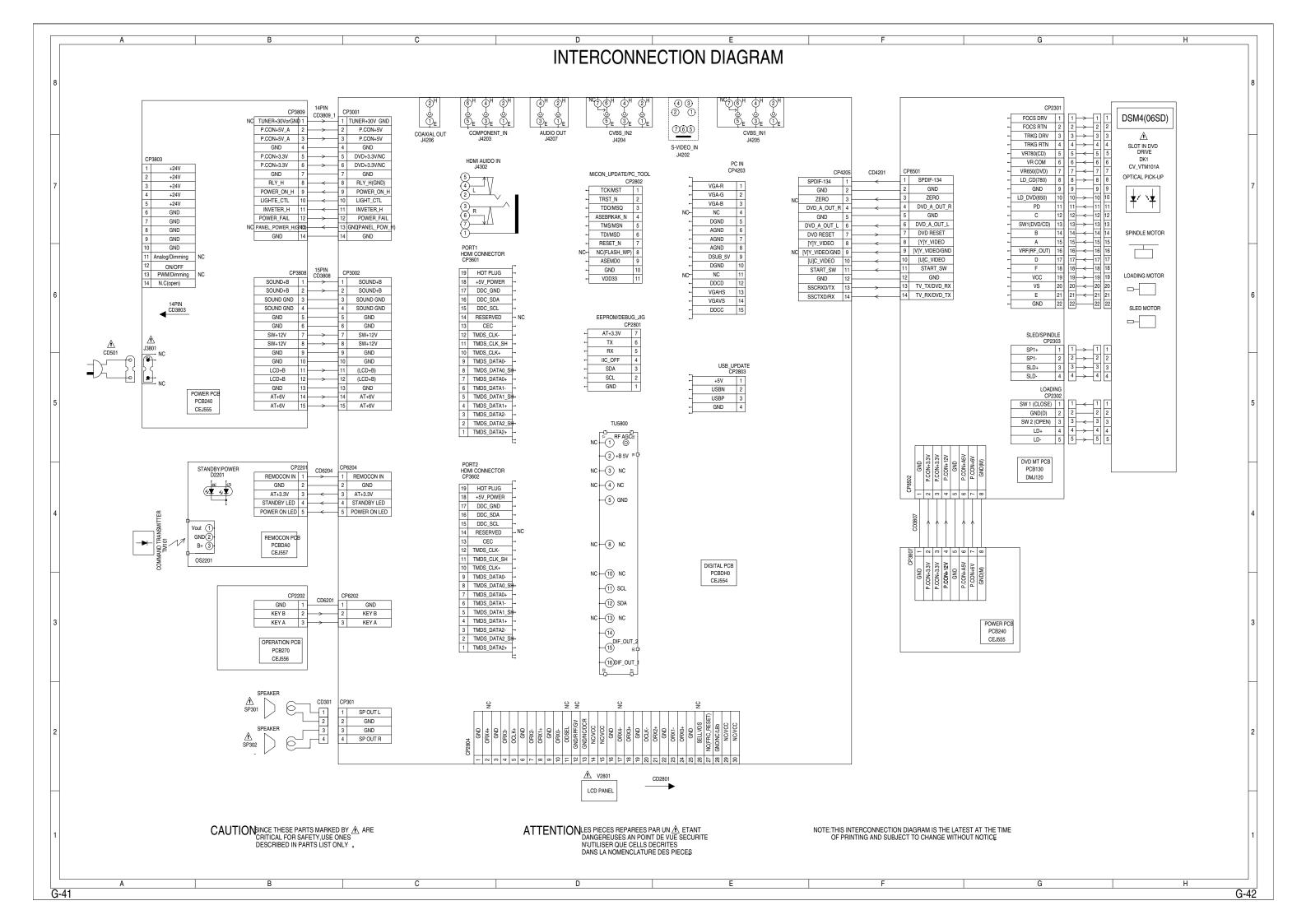












#### **WAVEFORMS FLASH** SOUND 20ns 200mV 10us 100mV 1ms 200mV 10 16 1 **SCALER VIDEO/AUDIO** 1ms 200mV 2ms 100mV 3 11 17 JACK2 20us 500mV 2ms 100mV 2ms 500mV 12 18 4 **JACK** 20us 500mV 2ms 100mV 2ms 500mV 5 13 19 MPEG/MICOM/DSP 10us 200mV 2ms 100mV 5ns 200mV 8 14 50 10us 100mV 0.2us 200mV 20ns 200mV 9 15 51

NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

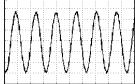
#### **WAVEFORMS**

#### MPEG/MICOM/DSP

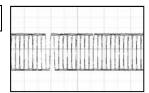
#### VIDEO/AUDIO IN/OUT

5ns 200mV

54

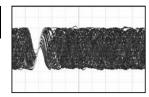




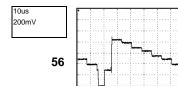


200ns 200mV

55



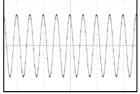
#### VIDEO/AUDIO IN/OUT



10us 200mV

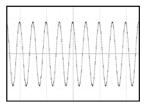
1ms 1V

58



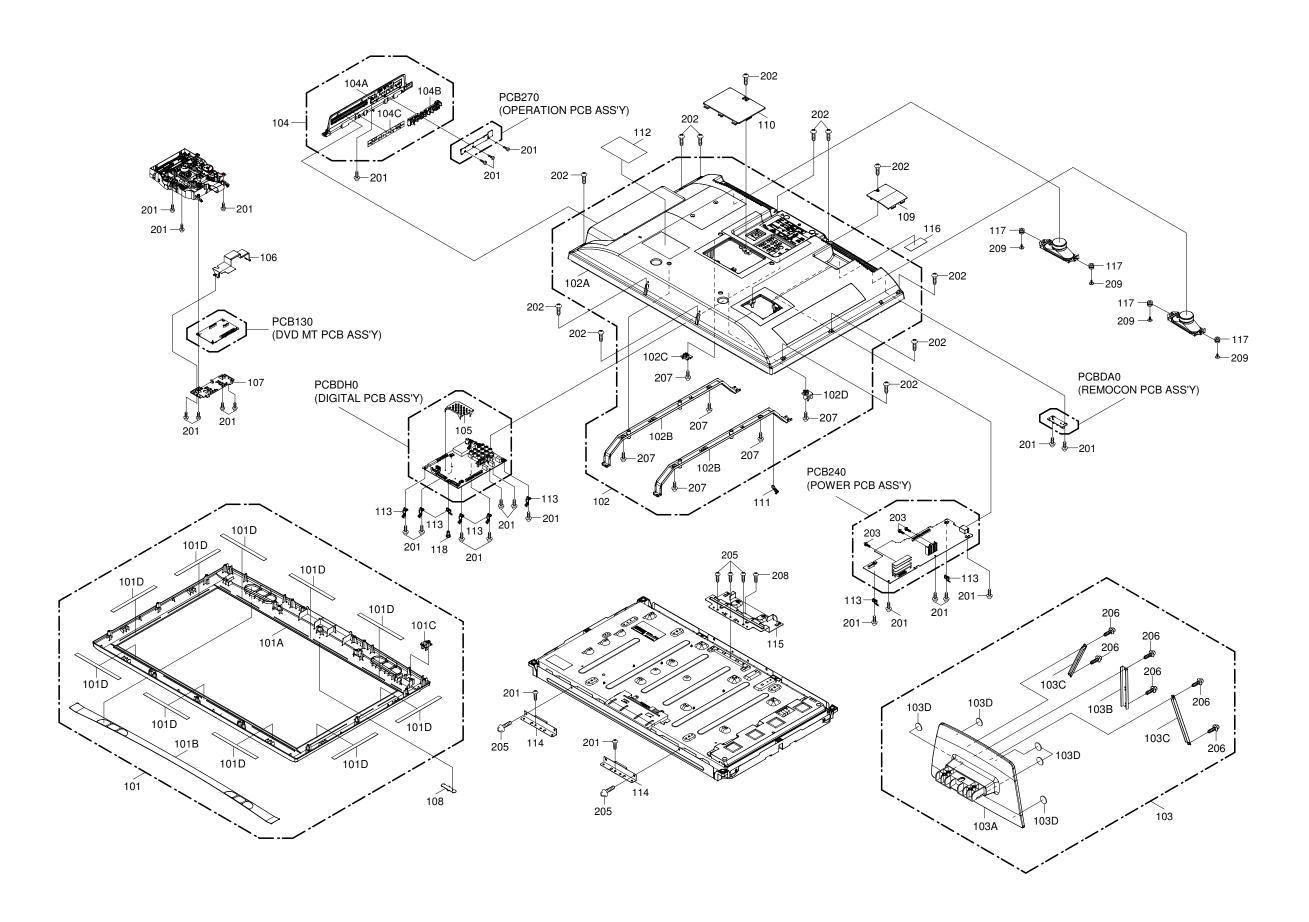
1ms 1V

59



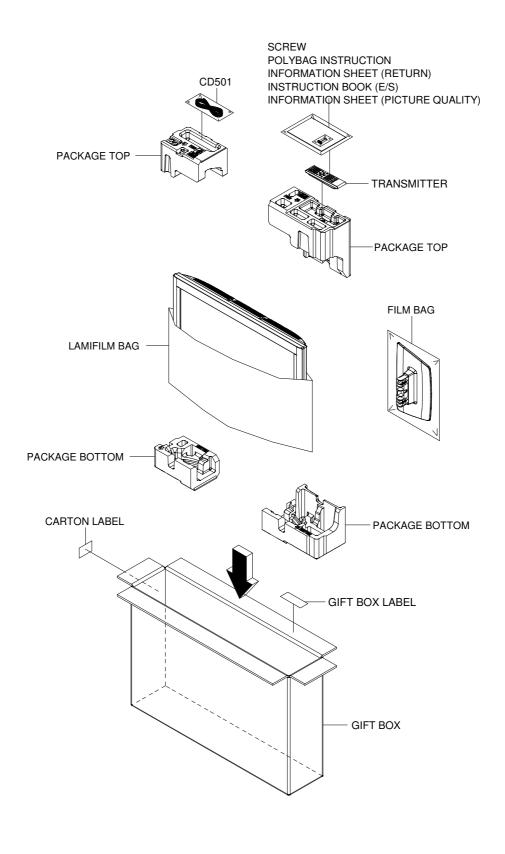
NOTE: The following waveforms were measured at the point of the corresponding balloon number in the schematic diagram.

## **MECHANICAL EXPLODED VIEW**

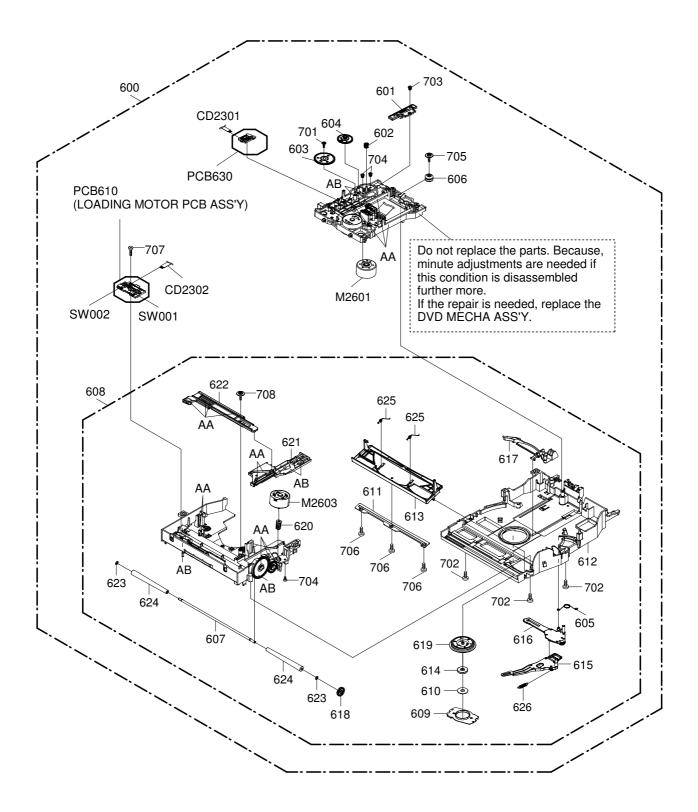


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# MECHANICAL EXPLODED VIEW (PACKING DIAGRAM)



#### **DVD DECK EXPLODED VIEW**



CLASS	PART NO.	PART NAME	MARK
005405	Y315141000	G-313Y	AA
GREASE	Y31D041000	CFD-5007Z	AB

**NOTE:** Applying positions AA and AB for the grease are displayed for this section. Check if the correct grease is applied for each position.

# **MECHANICAL REPLACEMENT PARTS LIST**

REF. NO.	PART NO.	DESCRIPTION		
101	7A708A351A	FRONT CABI ASS'Y		
101A	708WPA0051	CABINET FRONT		
101B	702WNAA031	SHEET SPEAKER		
101C	713WPAA295	GLASS LED		
101D	800WQ0A257	FELT SHEET		
102	7A702B078A	BACK CABI ASS'Y		
102A	702WPAB590	CABINET BACK		
102B	761WSA0651	ANGLE MAIN		
102C	761WPAA252	HOLDER PCB		
102D	761WPA0586	HOLDER PCB		
103	7A704A243A	STAND ASS'Y		
103A	704WPBA159	STAND		or
	704WPBA160	STAND		
103B	761WSA0691	ANGLE STAND-1		
103C	761WSA0692	ANGLE STAND-2		
103D	800WFA0135	CUSHION LEG		
104	7A735A044A	PLATE BUTTON ASS'Y		
104A	711WPDA957	PLATE BUTTON-DVD		
104B	735WPA0983	BUTTON FRAME		or
	735WPAB215	BUTTON FRAME		
104C	800WQ00175	FELT SHEET (DVD)		
105	752WSA0737	SHIELD DIGITAL		
106	761WSA0812	SHIELD LVDS BOTTOM		
107	761WSA0813	SHIELD LVDS		
108	723529A005	BADGE BRAND	1AV2BAAS024	
109	702WPAB347	COVER INVERTER-2		
110	702WPA1499	COVER LVDS		
111	709WPA0054	HOLDER WIRE		
112	722529A015	SHEET RATING		
113	744WUA0048	SPRING EARTH		
114 115	761WSAA201 761WSAA216	ANGLE LCD-TOP ANGLE HINGE		
116	800WQ00170	FELT SHEET		
117	800WR00084	DAMPER SPEAKER		
118	8900P3545B	RIVET		
110	09001 33436	TUVET		
201	8109230A0U	SCREW TAP TITE(B) BIND	3x10	
202	8109230A4U	SCREW TAP TITE(B) BIND	3x14	
203	8109I30A0U	SCREW TAP TITE(B) WH7	3x10	
204	810A14080U	SCREW WASHER(A)	M4x8	
205	810B13080U	SCREW WASHER(B)	M3x8	
206	811063080U	SCREW TAP TITE(P) BRAZIER	3x8	
207	8110630A0U	SCREW TAP TITE(P) BRAZIER	3x10	
208	8117540A0U	SCREW TAPPING(B0) TRUSS	4x10	
209	8171130A0U	SCREW TAP TITE(B) WASHER12	3x10	
	723000E508	CARTON LABEL		
	723000E514	GIFT BOX LABEL		
	791WHAA241	LAMIFILM BAG		
	791WHAA339	FILM BAG		
	792WHAA381	PACKAGE TOP		
	792WHAA382	PACKAGE BOTTOM		
	793WCDE323	GIFT BOX		
	8905000014	SCREW		
	J37I0529A	INFORMATION SHEET(RETURN)		
	J54H0521B	INSTRUCTION BOOK(E/S)		
	J54H0559A JA5K0000	INFORMATION SHEET(PICTURE QUALITY) POLYBAG INSTRUCTION		
	JASKUUUU	I OLIDAG INSTRUCTION		

# **DVD DECK REPLACEMENT PARTS LIST**

DEE NO	DARTNO	DECORIES.	TION
REF. NO.	PART NO.	DESCRIP*	
<u> </u>	A54K01W650	DVD MECHA ASS'Y	A54K01W650
601	92AAA0026A	FEED RACK ASS'Y	
602	92P100203A	GEAR MOTOR	
603	92P100201A	GEAR FEED	
604	92P100202A	GEAR MIDDLE	
605	92P300035A	SPRING LEVER GUIDE	
606	92P200018A	INSULATOR, R	
607	92P500016A	SHAFT ROLLER	
608	A54K01W700	LOADER SUB ASS'Y	
609	92P000036A	COVER CLAMPER	
610	92P000037A	PLATE CLAMPER	
611	92P000039A	PLATE RETAINER	
612	92P100222A	FRAME MAIN	
613	92P100159A	RETAINER SHUTTER	
614	92P400011A	MAGNET CLAMPER	
615	92P100161A	LEVER DISC	
616	92P100162A	LEVER GUIDE	
617	92P100218A	GUIDE DISC	
618	92P100164A	GEAR ROLLER	
619	92P100165A	CLAMPER	
0.0	02. 10010071		
620	92P100172A	GEAR WORM	
621	92P100175A	RACK LEVER	
622	92P100176A	PLATE TRVS UD	
623	92P100180A	LUMIRROR WASHER	
624	92P100180A 92P200020A	ROLLER CONE	
625	92P300033A	SPRING SHUTTER	
626	92P300033A 92P300034A	SPRING SHOTTER	
020	92F300034A	SPRING LEVER DISC	
701	92P700020A	SCREW TAP TITE(P) PAN WH5.4	1.7x8
701	92P700020A 92P700018A	SCREW TAP TITE(P) BIND	2.6x8
702		SCREW,T-TITE(B) CAMERA PAN	M1.7x5.0 P3
703 704	813381750U 814011723U	SCREW,PAN	M1.7x5.0 P3 M1.7x2.3 P3
704 705		SCREW TAP TITE(P) PAN WH8	M1.7x2.3 P3 2x8
	92P700021A	1 1	2x8 2x3
706 707	810922030U	SCREW TAP TITE(B) BIND	
707	810922060U	SCREW,TAP TITE(B) BIND	2x6
708	92P700017A	SCREW TAP TITE(P) BIND WH7	M2.6x8
000004	10055 :	CORD HIMBER	1104700 4
CD2301	12C5042201	CORD JUMPER	H01766-A
CD2302	12C5052701	CORD JUMPER	H01767-A
M2601	1515U98007	MOTOR	JQ24-35H440
M2603	1596L98004	MOTOR,LOADING	WRF-300CA-10460F or
	1515U98009	MOTOR	JQ24-35H440B
PCB610	A52C01T610	LOADING MOTOR PCB ASS'Y	FEH002B
PCB630	13FEJ006AW	PCB	FEJ006A
SW001	0500101042	PUSH SWITCH	ESE31R11T
SW002	0500101042	PUSH SWITCH	ESE31R11T

REF. NO.	PART NO.	DESCRIPTI	ION	REF. NO.	PART NO.	DESCRIPT	ION
		RESISTORS		- 1	-	RESISTORS	
R300	R808R9470J	RC	47 OHM 1/16W	R2849	R808R9101J	RC	100 OHM 1/16W
R301	R808R9100J	RC	10 OHM 1/16W	R2850	R808R9472J	RC	4.7K OHM 1/16W
R303	R808R9100J	RC	10 OHM 1/16W 2.2K OHM 1/16W	R2852	R808R9472J	RC	4.7K OHM 1/16W 4.7K OHM 1/16W
R304 R306	R808R9222J R802R8220J	RC RC	2.2K OHM 1/16W 22 OHM 1/8W	R2853 R2856	R808R9472J R808R9682F	RC RC	6.8K OHM 1/16W
R307	R802R8220J	RC	22 OHM 1/8W	R2859	R808R9472J	RC	4.7K OHM 1/16W
R308	R801R76R8J	RC	6.8 OHM 1/10W	R2861	R808R9102J	RC	1K OHM 1/16W
R309	R801R76R8J	RC	6.8 OHM 1/10W	R2863	R808R9472J	RC	4.7K OHM 1/16W
R310	R801R76R8J	RC	6.8 OHM 1/10W	R2866	R808R9472J	RC	4.7K OHM 1/16W
R311	R801R76R8J	RC	6.8 OHM 1/10W	R2867	R808R9472J	RC	4.7K OHM 1/16W
R2201	R803R9821J	RC	820 OHM 1/16W	R2868	R808R9103J	RC	10K OHM 1/16W
R2202 R2203	R803R9821J R803R9153J	RC RC	820 OHM 1/16W 15K OHM 1/16W	R2871 R2875	R808R9472J R808R9472J	RC RC	4.7K OHM 1/16W 4.7K OHM 1/16W
R2204	R803R9562J	RC	5.6K OHM 1/16W	R2876	R808R9472J	RC	4.7K OHM 1/16W
R2205	R803R9562J	RC	5.6K OHM 1/16W	R2877	R808R9472J	RC	4.7K OHM 1/16W
R2206	R803R9821J	RC	820 OHM 1/16W	R2878	R808R9153J	RC	15K OHM 1/16W
R2208	R803R9470J	RC	47 OHM 1/16W	R2879	R808R9223J	RC	22K OHM 1/16W
R2209	R803R9331J	RC	330 OHM 1/16W	R2880	R808R9221J	RC	220 OHM 1/16W
R2210	R801R7221J	RC	220 OHM 1/10W	R2882	R808R9472J	RC	4.7K OHM 1/16W 4.7K OHM 1/16W
R2301 R2302	R808R94R7J R808R94R7J	RC RC	4.7 OHM 1/16W 4.7 OHM 1/16W	R2883 R2885	R808R9472J R808R9101J	RC RC	100 OHM 1/16W
R2306	R808R9332J	RC	3.3K OHM 1/16W	R2886	R808R9102J	RC	1K OHM 1/16W
R2307	R808R9332J	RC	3.3K OHM 1/16W	R2891	R808R9103J	RC	10K OHM 1/16W
R2308	R808R9332J	RC	3.3K OHM 1/16W	R2892	R808R9221J	RC	220 OHM 1/16W
R2309	R808R9332J	RC	3.3K OHM 1/16W	R2894	R808R9220J	RC	22 OHM 1/16W
R2310	R808R9103J	RC	10K OHM 1/16W	R2895	R808R9472J	RC	4.7K OHM 1/16W
R2311 R2312	R808R9183F R808R9822F	RC RC	18K OHM 1/16W 8.2K OHM 1/16W	R2896 R2898	R808R9220J R808R9472J	RC RC	22 OHM 1/16W 4.7K OHM 1/16W
R2312	R808R9103F	RC	10K OHM 1/16W	R2899	R808R9123F	RC	12K OHM 1/16W
R2316	R808R9332J	RC	3.3K OHM 1/16W	R2906	R808R9472J	RC	4.7K OHM 1/16W
R2317	R808R9822F	RC	8.2K OHM 1/16W	R2907	R808R9472J	RC	4.7K OHM 1/16W
R2319	R808R9103J	RC	10K OHM 1/16W	R2908	R808R9472J	RC	4.7K OHM 1/16W
R2325	R808R9471F	RC	470 OHM 1/16W	R2909	R808R9472J	RC	4.7K OHM 1/16W
R2326	R861R4010J	RC	1 OHM 1/4W	R2910	R808R9472J	RC	4.7K OHM 1/16W
R2328 R2341	R808R9103J R808R9103J	RC RC	10K OHM 1/16W 10K OHM 1/16W	R2911 R2912	R808R9472J R808R9472J	RC RC	4.7K OHM 1/16W 4.7K OHM 1/16W
R2342	R808R9103J	RC	10K OHM 1/16W	R2913	R808R9101J	RC	100 OHM 1/16W
R2344	R808R9103J	RC	10K OHM 1/16W	R2915	R808R9472J	RC	4.7K OHM 1/16W
R2803	R808R9103J	RC	10K OHM 1/16W	R2916	R808R9472J	RC	4.7K OHM 1/16W
R2804	R808R9103J	RC	10K OHM 1/16W	R2917	R808R9472J	RC	4.7K OHM 1/16W
R2805	R808R9103J	RC	10K OHM 1/16W	R2919	R808R9103J	RC	10K OHM 1/16W
R2808 R2809	R808R9222J R808R9201F	RC RC	2.2K OHM 1/16W 200 OHM 1/16W	R3004 R3005	R808R9390J R808R9390J	RC RC	39 OHM 1/16W 39 OHM 1/16W
R2810	R808R9472J	RC	4.7K OHM 1/16W	R3007	R808R9472J	RC	4.7K OHM 1/16W
R2811	R808R9103J	RC	10K OHM 1/16W	R3008	R808R9102J	RC	1K OHM 1/16W
R2812	R808R9472J	RC	4.7K OHM 1/16W	R3012	R808R9682J	RC	6.8K OHM 1/16W
R2813		RC	1K OHM 1/16W	R3014	R808R9103J	RC	10K OHM 1/16W
R2815	R808R9220J		22 OHM 1/16W	R3016	R808R9103J	RC	10K OHM 1/16W
R2816	R808R9220J R808R9220J	RC RC	22 OHM 1/16W	R3017	R808R9822J	RC RC	8.2K OHM 1/16W
R2817 R2818	R808R9220J	RC RC	22 OHM 1/16W 22 OHM 1/16W	R3018 R3019	R808R9562F R808R9332F	RC RC	5.6K OHM 1/16W 3.3K OHM 1/16W
R2819	R808R9220J	RC	22 OHM 1/16W	R3020	R808R9102F	RC	1K OHM 1/16W
R2820	R808R9105J	RC	1M OHM 1/16W	R3022	R808R9752J	RC	7.5K OHM 1/16W
R2822	R808R9104J	RC	100K OHM 1/16W	R3023	R808R9223J	RC	22K OHM 1/16W
R2823	R808R9222J	RC	2.2K OHM 1/16W	R3025	R808R9682J	RC	6.8K OHM 1/16W
R2824	R808R9103J	RC RC	10K OHM 1/16W	R3026	R808R9472J	RC RC	4.7K OHM 1/16W
R2825 R2826	R808R9103J R808R9392J	RC RC	10K OHM 1/16W 3.9K OHM 1/16W	R3027 R3028	R808R9822F R808R9302F	RC RC	8.2K OHM 1/16W 3K OHM 1/16W
R2827	R808R9123F	RC	12K OHM 1/16W	R3030	R808R9183F	RC	18K OHM 1/16W
R2828	R808R9472J	RC	4.7K OHM 1/16W	R3031	R808R9332J	RC	3.3K OHM 1/16W
R2829		RC	100 OHM 1/16W	R3032	R808R9103J	RC	10K OHM 1/16W
R2830	R808R9101F	RC	100 OHM 1/16W	R3033	R808R9103J	RC	10K OHM 1/16W
R2831	R808R9121J	RC	120 OHM 1/16W	R3034	R808R9123J	RC	12K OHM 1/16W
R2832 R2835	R808R9330J R808R9472J	RC RC	33 OHM 1/16W 4.7K OHM 1/16W	R3035 R3036	R808R9432F R808R9273F	RC RC	4.3K OHM 1/16W 27K OHM 1/16W
R2836	R808R9103J	RC	10K OHM 1/16W	R3039	R808R9103F	RC	10K OHM 1/16W
R2837	R808R9103J	RC	10K OHM 1/16W	R3602	R808R9472J	RC	4.7K OHM 1/16W
R2838	R808R9472J	RC	4.7K OHM 1/16W	R3603	R808R9100J	RC	10 OHM 1/16W
R2839	R808R9472J	RC	4.7K OHM 1/16W	R3604	R808R9100J	RC	10 OHM 1/16W
R2841	R808R9330J	RC	33 OHM 1/16W	R3605	R808R9472J	RC	4.7K OHM 1/16W
R2842 R2843	R808R94R7J R808R94R7J	RC RC	4.7 OHM 1/16W 4.7 OHM 1/16W	R3609 R3610	R808R9102J R808R9223J	RC RC	1K OHM 1/16W 22K OHM 1/16W
R2843 R2844		RC	62 OHM 1/16W	R3611	R808R9102J	RC	1K OHM 1/16W
R2845		RC	100 OHM 1/16W	R3614	R808R9223J	RC	22K OHM 1/16W
R2846		RC	100 OHM 1/16W	R3615	R808R9473J	RC	47K OHM 1/16W
R2847		RC	5.6K OHM 1/16W	R3616	R808R9473J	RC	47K OHM 1/16W
R2848	R808R9103J	RC	10K OHM 1/16W	R3617	R808R9473J	RC	47K OHM 1/16W

RESISTORS RESIST	REF. NO.	PART NO.	DESCRIPT	ION	REF. NO.	PART NO.	DESCRIPT	ION
PRESSO   ROBERTSSED   Inc								
RANGE   PROPRIESCAL   CC								
BRIGHT   B								
PROSECTION   PROPERTY   PROPERT								
PRINCESSON   PROPRINCESSON   PROCEEDINGS   PROCESSON	R3651	R808R9302J	RC	3K OHM 1/16W	R3887	R002T2332J	RC	3.3K OHM 1/2W
Rase   Rase   Rase   Rase   Race								
Base    Base  Ba								
BASSP   ROSSPRICAD   RO								
Respect   Resp								
R8890								
R889E   R806R9184L   RC								
R8900	<u>∧</u> R3800			1.2 OHM 7W	R3897	R803R9390J		
ABBRID   ROCKERSSAU   RC   SONC OMI 16W   R4002   R005878323   RC   SONC OMI 16W   R4002   R005878023   RC   SONC OMI 16W   R4004   R005878023   RC   SONC OMI 16W   R4005   R005878023   RC   SONC OMI 16W   R4005   R005878023   RC   SONC OMI 16W   R4005   R00587803   RC   SONC OMI 16W								
ABBBBB   RBSCRESSBAL   RC   SSIGK OFM 19W   RBSDB								
R8806								
R809B   R808R919EM   IC   180K OHM 116W   R808B   R808R915T3   RC   150 OHM 116W   R808B   R808R915T3   RC   1.5K OHM 116W   R808B   R808R915T3   RC   1.5								
R8810   R805R91522   RC								
R8319 R803F9152J RC 1.5K OHM 1/16W R8069 R803F9152J RC 15K OHM 1/16W R8069 R803F9152J RC 15K OHM 1/16W R8069 R803F9152J RC 15K OHM 1/16W R8069			RC	180K OHM 1/16W		R808R9472J	RC	
R8816   R8086919142   RC								
R8816   R808919184   RC								
R881								
R8818								
R83819								
B8212   R803R9102F   RC								
B8222   R803R9152F   RC	R3820	R803R9203F	RC	20K OHM 1/16W	R4019	R808R9133F	RC	13K OHM 1/16W
Bassa								
R8824								
R3826 R803F9123F RC 15K OHM 1/16W R4031 R803F9130J RC 33 OHM 1/16W R3039 R803F9123J RC 10K OHM 1/16W R4039 R803F9123J RC 10K OHM 1/16W R4039 R803F9123J RC 10K OHM 1/16W R4039 R803F9103J RC 10K OHM 1/16W R4034 R803F9103J RC 10K OHM 1/16W R4035 R803F930J RC 1								
R3828								
R3831         R803R9182EF         RC         18K OHM 1/16W         R4040         R808R9103J         RC         10K OHM 1/16W           R3832         R803R9102J         RC         1K OHM 1/16W         R4043         R808R933DJ         RC         33 OHM 1/16W           R3834         R803R9472J         RC         4.7K OHM 1/16W         R4044         R808R9103J         RC         10K OHM 1/16W           R3835         R002T4103J         RC         10K OHM 1/16W         R4044         R808R9913J         RC         10K OHM 1/16W           R3836         R002T4103J         RC         10 OHM 1/4W         R4046         R808R9616J         R60 OHM 1/16W         R608 OHM 1/16W           R3837         R80389103J         RC         10K OHM 1/4W         R4050         R808R9616J         RC         680 OHM 1/16W           R3839         R80389103J         RC         10K OHM 1/16W         R4050         R808R9103J         RC         10K OHM 1/16W         R4051         R808R9103J         RC         10K OHM 1/16W         R4051         R808R9133J         RC         10K OHM 1/16W         R4054         R808R9330J         RC         33 OHM 1/16W         R4054         R808R9330J         RC         33 OHM 1/16W         R4054         R808R9330J         RC								
R83822         R002714330J         RC         33         OHM 1/46W         R4042         R808R9103J         RC         10K OHM 1/16W           R83834         R803R9472J         RC         4.7K OHM 1/16W         R4044         R808R9103J         RC         33 OHM 1/16W           R8383         R002T4103J         RC         4.7K OHM 1/16W         R4045         R808R9103J         RC         10K OHM 1/16W           R9387         R002T4103J         RC         15 OHM 1/16W         R4046         R808R9103J         RC         10K OHM 1/16W           R8383         R002T4103J         RC         15 OHM 1/16W         R4046         R808R9103J         RC         10K OHM 1/16W           R8383         R803R910J         RC         10 OHM 1/16W         R4045         R808R9103J         RC         10K OHM 1/16W           R3841         R803R910J         RC         10K OHM 1/16W         R4054         R808R930J         RC         470 OHM 1/16W           R3841         R803R910J         RC         10K OHM 1/16W         R4054         R808R910J         RC         33 OHM 1/16W           R3842         R803R910J         RC         10K OHM 1/16W         R4054         R803R910J         RC         30 OHM 1/16W           R3845 <td><u>∧</u> R3830</td> <td>R002T4103J</td> <td>RC</td> <td>10K OHM 1/4W</td> <td>R4039</td> <td>R808R9512J</td> <td>RC</td> <td>5.1K OHM 1/16W</td>	<u>∧</u> R3830	R002T4103J	RC	10K OHM 1/4W	R4039	R808R9512J	RC	5.1K OHM 1/16W
R83833         R803R9102J. RC         1K OHM 1/16W         R4043         R808R9303D. RC         33 OHM 1/16W           R3834         R803R9472J. RC         4.7K OHM 1/16W         R4045         R808R9432J. RC         10K OHM 1/16W           R3835         R002T4103J. RC         10 OHM 1/4W         R4045         R808R9472J. RC         4.7K OHM 1/16W           R3837         R803R9160J. RC         15 OHM 1/16W         R4047         R808R98173J. RC         680 OHM 1/16W           R3839         R002T4103J. RC         10K OHM 1/16W         R4052         R808R9103J. RC         10K OHM 1/16W           R3840         R803R9102J. RC         1K OHM 1/16W         R4052         R808R917J. RC         10K OHM 1/16W           R3841         R803R9103J. RC         1K OHM 1/16W         R4052         R808R933DJ. RC         33 OHM 1/16W           R3841         R803R9103J. RC         1K OHM 1/16W         R4052         R803R933DJ. RC         33 OHM 1/16W           R3844         R803R9103J. RC         1K OHM 1/16W         R4055         R803R993DJ. RC         33 OHM 1/16W           R3844         R803R920BRJ         RC         470 OHM 1/16W         R4057         R803R993DJ. RC         6.8 OHM 1/16W           R3844         R803R9103J. RC         1 OHM 1/16W         R4057 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
R8384 R80388472 JRC         4.7K OHM 1/16W         R4044 R80889103J RC         10K OHM 1/16W         R4045 R80889103J RC         10K OHM 1/16W         R406 R80877 R80889103J RC         10K OHM 1/16W         R406 R80877 R80889103J RC         10K OHM 1/16W         R406 R80879103J RC         10K OHM 1/16W         R80889103J RC         470 OHM 1/16W         R80889103J RC         33 OHM 1/16W         R80889103J RC         33 OHM 1/16W         R80889103J RC         33 OHM 1/16W         R80889103J RC         36 OHM 1/16W         R80889103J RC         30 OHM 1/16W         R80889103J RC         30 OHM 1/16W         R80889103J RC         30 OHM 1/16W         R80889103J RC         68 OHM 1/16W         R808891								
R3835         R002T4103J         RC         10K OHM 1/4W         R4045         R808R9472J         RC         4.7K OHM 1/16W           R3836         R002T4103J         RC         15 OHM 1/16W         R4047         R808R9631J         RC         10K OHM 1/16W           R3838         R00ZT4103J         RC         10K OHM 1/16W         R4050         R808R9103J         RC         10K OHM 1/16W           R3849         R803R9103J         RC         10K OHM 1/16W         R4052         R808R9103J         RC         470 OHM 1/16W           R3841         R803R9103J         RC         10K OHM 1/16W         R4053         R808R9103J         RC         33 OHM 1/16W           R3841         R803R9103J         RC         10K OHM 1/16W         R4055         R808R9330J         RC         33 OHM 1/16W           R3842         R803R9103J         RC         10K OHM 1/16W         R4056         R808R9103J         RC         68 OHM 1/16W           R3844         R803R9103J         RC         10K OHM 1/16W         R4056         R808R9103J         RC         68 OHM 1/16W           R3844         R803R9103J         RC         22 OHM 1/16W         R4059         R808R9103J         RC         68 OHM 1/16W           R344								
R3838 R022T4100.J RC         10 OHM 1/4W         R4046 R038915 RC         680 OHM 1/16W           R3837 R803R9150.J RC         15 OHM 1/16W         R4047 R808R9103.J RC         10K OHM 1/16W           R3838 R002T4103.J RC         10K OHM 1/16W         R4052 R808R9103.J RC         10K OHM 1/16W           R3840 R803R9100.J RC         10K OHM 1/16W         R4053 R808R9103.J RC         470 OHM 1/16W           R3841 R803R9103.J RC         10K OHM 1/16W         R4054 R808R9303.J RC         33 OHM 1/16W           R3842 R803R9103.J RC         10K OHM 1/16W         R4055 R808R9303.J RC         33 OHM 1/16W           R3843 R803R9103.J RC         10K OHM 1/16W         R4056 R808R9300.J RC         68 OHM 1/16W           R3844 R803R9103.J RC         10K OHM 1/16W         R4056 R808R9100.J RC         68 OHM 1/16W           R3844 R803R9103.J RC         10K OHM 1/16W         R4056 R808R9100.J RC         68 OHM 1/16W           R3845 R803R9103.J RC         10K OHM 1/16W         R4057 R808R9680.J RC         68 OHM 1/16W           R3846 R803R9103.J RC         68K OHM 1/16W         R4060 R808R9750F RC         75 OHM 1/16W           R3847 R803R9683.J RC         68K OHM 1/16W         R4061 R808R9750F RC         75 OHM 1/16W           R3849 R803R9102.J RC         10K OHM 1/16W         R4061 R808R9750F RC         75 OHM 1/16W								
R3838   R002T4103J   RC								
R3839         R803R9100J         RC         10 OHM 1/16W         R4052         R808R9310J         RC         470 OHM 1/16W           R3841         R803R9102J         RC         11K OHM 1/16W         R4053         R808R9330J         RC         33 OHM 1/16W           R3842         R803R9103J         RC         10K OHM 1/16W         R4055         R803R916BJ         RC         6.8 OHM 1/16W           R3843         R803R9103J         RC         10K OHM 1/16W         R4055         R803R916BJ         RC         6.8 OHM 1/16W           R3844         R002T447TJ         RC         470 OHM 1/4W         R4057         R808R9180J         RC         6.8 OHM 1/16W           R3845         R803R920F         RC         22 OHM 1/16W         R4059         R808R9750F         RC         75 OHM 1/16W           R3847         R803R9883J         RC         68K OHM 1/16W         R4061         R808R9750F         RC         75 OHM 1/16W           R3849         R803R910J         RC         10K OHM 1/16W         R4061         R808R9750F         RC         75 OHM 1/16W           R3849         R803R910J         RC         68K OHM 1/16W         R4062         R808R9750F         RC         75 OHM 1/16W           R3849         R80	R3837	R803R9150J	RC	15 OHM 1/16W	R4047	R808R9103J	RC	10K OHM 1/16W
R8040								
R3841   R803R9103J   RC								
R3842         R803R9103J         RC         10K OHM 1/16W         R4055         R803R96R8J         RC         6.8 OHM 1/16W           R3843         R803R9103J         RC         10K OHM 1/16W         R4056         R808R9103J         RC         10 OHM 1/16W           R3844         R003R920F         RC         470 OHM 1/16W         R4057         R808R9680J         RC         68 OHM 1/16W           R3845         R803R9102J         RC         22 OHM 1/16W         R4060         R808R9750F         RC         75 OHM 1/16W           R3847         R803R99102J         RC         68K OHM 1/16W         R4061         R808R9750F         RC         75 OHM 1/16W           R38549         R803R9102J         RC         11K OHM 1/16W         R4061         R808R9750F         RC         75 OHM 1/16W           R3855         R3057         R002T4103J         RC         11K OHM 1/16W         R4061         R808R930J         RC         75 OHM 1/16W           R3854         R3853         R3678R913J         RC         10K OHM 1/16W         R4212         R808R9682J         RC         6.8K OHM 1/16W           R3854         R3853         R803R947J         RC         4.7 OHM 1/16W         R4212         R808R9682J         RC         6.8								
R3843         R803R9103J         RC         10K OHM 1/16W         R4056         R808R9100J         RC         10 OHM 1/16W           R3844         R002T4471J         RC         470 OHM 1/4W         R4057         R808R9680J         RC         68 OHM 1/16W           R3845         R803R920F         RC         22 OHM 1/16W         R4060         R808R9750F         RC         75 OHM 1/16W           R3847         R803R963J         RC         68K OHM 1/16W         R4061         R808R9750F         RC         75 OHM 1/16W           R3847         R803R963D         RC         68K OHM 1/16W         R4061         R808R9750F         RC         75 OHM 1/16W           R3849         R803R9102J         RC         1K OHM 1/16W         R4061         R808R9750F         RC         75 OHM 1/16W           R3850         R002T4103J         RC         10K OHM 1/14W         R4066         R808R9330J         RC         33 OHM 1/16W           R3852         R803R9103J         RC         10K OHM 1/16W         R4213         R808R9682J         RC         6.8K OHM 1/16W           R3853         R832R834J         RC         330K OHM 1/16W         R4217         R808R9682J         RC         6.8K OHM 1/16W           R3855         R36								
R3845         R803R9220F         RC         22         OHM 1/16W         R4059         R808R9750F         RC         75         OHM 1/16W           R3846         R803R91010         RC         1         OHM 1/16W         R4060         R808R9750F         RC         75         OHM 1/16W           R3847         R803R9102J         RC         1K         OHM 1/16W         R4061         R808R9750F         RC         75         OHM 1/16W           R3849         R803R9102J         RC         1K         OHM 1/16W         R4062         R808R9750F         RC         75         OHM 1/16W           R3858         R002T4103J         RC         10K         OHM 1/4W         R4066         R808R930J         RC         33         OHM 1/16W           R3852         R803R9103J         RC         10K         OHM 1/16W         R4213         R808R9862J         RC         6.8K         OHM 1/16W           A R3851         R803R9487J         RC         330K         OHM 1/16W         R4213         R808R9862J         RC         6.8K         OHM 1/16W           A R3855         R3K78AR15J         R.METAL OXIDE         0.15         OHM 2W         R4219         R808R9101J         RC         6.8K         OHM 1/1								
R3846         R803R9010J         RC         1 OHM 1/16W         R4060         R808R9750F         RC         75 OHM 1/16W           R3847         R803R9682J         RC         68K OHM 1/16W         R4061         R808R9750F         RC         75 OHM 1/16W           R3849         R803R9102J         RC         10K OHM 1/16W         R4062         R808R9750F         RC         75 OHM 1/16W           R3850         R002T4103J         RC         10K OHM 1/16W         R4066         R808R9750F         RC         33 OHM 1/16W           R3852         R803R9103J         RC         10K OHM 1/16W         R4212         R808R9682J         RC         6.8K OHM 1/16W           R3853         R802R8334J         RC         330K OHM 1/16W         R4215         R808R9682J         RC         6.8K OHM 1/16W           R3854         R803R978APTJ         RC         4.7 OHM 1/16W         R4217         R808R9682J         RC         6.8K OHM 1/16W           R3855         R3K78AR15J         R,METAL OXIDE         0.15 OHM 2W         R4217         R808R9682J         RC         6.8K OHM 1/16W           R3855         R3678AR15J         R         RMETAL OXIDE         0.15 OHM 2W         R4217         R808R9183J         RC         18K OHM 1/16W	R3844	R002T4471J	RC	470 OHM 1/4W	R4057	R808R9680J	RC	68 OHM 1/16W
R3847         R803R9683J         RC         68K OHM 1/16W         R4061         R808R9750F         RC         75 OHM 1/16W           R3850         R002T4103J         RC         10K OHM 1/16W         R4062         R808R9750F         RC         75 OHM 1/16W           AR3850         R002T4103J         RC         10K OHM 1/14W         R4066         R808R9330J         RC         33 OHM 1/16W           AR3851         R3K78AR15J         R,METAL OXIDE         0.15 OHM 2W         R4212         R808R9682J         RC         6.8K OHM 1/16W           AR3853         R8X2R8334J         RC         330K OHM 1/16W         R4215         R808R9682J         RC         6.8K OHM 1/16W           AR3855         R8X78AR15J         RC         4.7 OHM 1/16W         R4215         R808R9682J         RC         6.8K OHM 1/16W           AR3855         R3K78AR15J         RC         4.7 OHM 1/16W         R4217         R808R9682J         RC         6.8K OHM 1/16W           R3856         R80SR9334J         RC         4.7 OHM 1/16W         R4221         R808R9183J         RC         18K OHM 1/16W           R3857         R002T4205J         RC         2M OHM 1/16W         R4221         R808R9183J         RC         18K OHM 1/16W								
R3849         R803R9102J         RC         1K OHM 1/16W         R4062         R808R9750F         RC         75 OHM 1/16W           R3850         R00ZT4103J         RC         10K OHM 1/4W         R4066         R808R9330J         RC         33 OHM 1/16W           R3851         R3K78AR15J         R,METAL OXIDE         0.15 OHM 2W         R4212         R808R9682J         RC         6.8K OHM 1/16W           R3852         R803R9103J         RC         10K OHM 1/16W         R4213         R808R9682J         RC         6.8K OHM 1/16W           A R3853         R8X2R8334J         RC         330K OHM 1/8W         R4215         R808R9682J         RC         6.8K OHM 1/16W           A R3855         R8X78AR15J         R,METAL OXIDE         0.15 OHM 2W         R4219         R808R9682J         RC         6.8K OHM 1/16W           R3856         R803R9334J         RC         330K OHM 1/16W         R4221         R808R9183J         RC         100 OHM 1/16W           R3857         R00ZT468U         RC         68 OHM 1/14W         R4223         R808R9183J         RC         18K OHM 1/16W           R3858         R00ZT440U         RC         10 OHM 1/4W         R4224         R808R975U         RC         75 OHM 1/16W <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
R3850         R002T4103J         RC         10K OHM 1/4W         R4066         R808R9330J         RC         33 OHM 1/16W           AR8851         R3K78AR15J         R,METAL OXIDE         0.15 OHM 2W         R4212         R808R9682J         RC         6.8K OHM 1/16W           AR8852         R803R9103J         RC         10K OHM 1/16W         R4213         R808R9682J         RC         6.8K OHM 1/16W           AR8853         R8X2R8334J         RC         330K OHM 1/16W         R4215         R808R9682J         RC         6.8K OHM 1/16W           R3854         R803R94R7J         RC         4.7 OHM 1/16W         R4217         R808R9682J         RC         6.8K OHM 1/16W           R3856         R803R934J         RC         4.7 OHM 1/16W         R4217         R808R9682J         RC         6.8K OHM 1/16W           R3856         R803R934J         RC         4.7 OHM 1/16W         R4219         R808R9682J         RC         6.8K OHM 1/16W           R3857         R002T4680J         RC         68 OHM 1/4W         R4221         R808R9183J         RC         18K OHM 1/16W           R3858         R002T4205J         RC         2M OHM 1/4W         R4224         R808R9750J         RC         75 OHM 1/16W           AR386								
▲ R3851         R3K78AR15J         R,METAL OXIDE         0.15 OHM 2W         R4212         R808R9682J         RC         6.8K OHM 1/16W           A R3852         R803R9103J         RC         10K OHM 1/16W         R4213         R808R9682J         RC         6.8K OHM 1/16W           A R3853         R8X2R8334J         RC         330K OHM 1/8W         R4215         R808R9682J         RC         6.8K OHM 1/16W           R3854         R803R94R7J         RC         4.7 OHM 1/16W         R4217         R808R9682J         RC         6.8K OHM 1/16W           A R3855         R3K78AR15J         R,METAL OXIDE         0.15 OHM 2W         R4219         R808R9183J         RC         100 OHM 1/16W           R3856         R803R9334J         RC         330K OHM 1/16W         R4221         R808R9183J         RC         18K OHM 1/16W           R3857         R002T4680J         RC         68 OHM 1/4W         R4223         R808R9183J         RC         18K OHM 1/16W           A R3859         R002T4680J         RC         2M OHM 1/4W         R4224         R808R9750J         RC         75 OHM 1/16W           A R3859         R002T4100J         RC         10 OHM 1/4W         R4225         R808R9750J         RC         75 OHM 1/16W								
R3852         R803R9103J         RC         10K OHM 1/16W         R4213         R808R9682J         RC         6.8K OHM 1/16W           A R3853         R8X2R8334J         RC         330K OHM 1/8W         R4215         R808R9682J         RC         6.8K OHM 1/16W           A R3854         R803R94R7J         RC         4.7 OHM 1/16W         R4217         R808R9682J         RC         6.8K OHM 1/16W           A R3855         R3X78AR15J         R,METAL OXIDE         0.15 OHM 2W         R4219         R808R9101J         RC         100 OHM 1/16W           R3857         R002T4680J         RC         68 OHM 1/4W         R4223         R808R9183J         RC         18K OHM 1/16W           R3858         R00ZT4205J         RC         2M OHM 1/4W         R4223         R808R9183J         RC         18K OHM 1/16W           A R3859         R00ZT4100J         RC         2M OHM 1/4W         R4225         R808R9750J         RC         75 OHM 1/16W           A R3861         R3K781823J         R,FUSE         2.2 OHM 1/4W         R4229         R808R9750J         RC         75 OHM 1/16W           R3862         R803R9471J         RC         470 OHM 1/16W         R4230         R808R9750J         RC         2.2K OHM 1/16W           <								
R3854       R803R94R7J       RC       4.7 OHM 1/16W       R4217       R808R9682J       RC       6.8K OHM 1/16W         ▲ R3855       R3K78AR15J       R,METAL OXIDE       0.15 OHM 2W       R4219       R808R9101J       RC       100 OHM 1/16W         R3856       R803R9334J       RC       330K OHM 1/16W       R4221       R808R9183J       RC       18K OHM 1/16W         R3857       R002T4680J       RC       68 OHM 1/4W       R4223       R808R9183J       RC       18K OHM 1/16W         R3858       R002T4205J       RC       2M OHM 1/4W       R4224       R808R9750J       RC       75 OHM 1/16W         A R3859       R002T4100J       RC       10 OHM 1/4W       R4225       R808R9750J       RC       75 OHM 1/16W         A R3860       R655842R2J       R,FUSE       2.2 OHM 1/4W       R4229       R808R9750J       RC       75 OHM 1/16W         R3861       R3K781823J       R,METAL OXIDE       82K OHM 1W       R4235       R808R9750J       RC       75 OHM 1/16W         R3862       R803R9471J       RC       470 OHM 1/16W       R4235       R808R9102J       RC       22K OHM 1/16W         R3863       R803R9102J       RC       100 OHM 1/2W       R4238       R808R9102J		R803R9103J		10K OHM 1/16W			RC	6.8K OHM 1/16W
▲ R3855         R3K78AR15J         R,METAL OXIDE         0.15 OHM 2W         R4219         R808R9101J         RC         100 OHM 1/16W           R3856         R803R9334J         RC         330K OHM 1/16W         R4221         R808R9183J         RC         18K OHM 1/16W           R3857         R002T4805J         RC         68 OHM 1/4W         R4223         R808R9183J         RC         18K OHM 1/16W           R3858         R002T4205J         RC         2M OHM 1/4W         R4224         R808R9750J         RC         75 OHM 1/16W           A R3859         R002T4100J         RC         10 OHM 1/4W         R4225         R808R9750J         RC         75 OHM 1/16W           A R3860         R655842R2J         R,FUSE         2.2 OHM 1/4W         R4229         R808R9750J         RC         75 OHM 1/16W           R3861         R3K781823J         R,METAL OXIDE         82K OHM 1W         R4230         R808R9750J         RC         75 OHM 1/16W           R3862         R803R9471J         RC         470 OHM 1/16W         R4235         R808R9922J         RC         2.2K OHM 1/16W           R3863         R803R9102J         RC         1K OHM 1/16W         R4238         R808R9102J         RC         1K OHM 1/16W <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
R3856         R803R9334J         RC         330K OHM 1/16W         R4221         R808R9183J         RC         18K OHM 1/16W           R3857         R002T4680J         RC         68 OHM 1/4W         R4223         R808R9183J         RC         18K OHM 1/16W           R3858         R002T4205J         RC         2M OHM 1/4W         R4224         R808R9750J         RC         75 OHM 1/16W           A R3859         R002T4100J         RC         10 OHM 1/4W         R4225         R808R9750J         RC         75 OHM 1/16W           A R3860         R655842R2J         R,FUSE         2.2 OHM 1/4W         R4229         R808R9750J         RC         75 OHM 1/16W           A R3861         R3K781823J         RC         470 OHM 1/16W         R4230         R808R9750J         RC         75 OHM 1/16W           R3862         R803R9471J         RC         470 OHM 1/16W         R4235         R808R9922J         RC         2.2K OHM 1/16W           R3863         R803R9102J         RC         1K OHM 1/16W         R4238         R808R9102J         RC         1K OHM 1/16W           R3864         R002T2101J         RC         100 OHM 1/2W         R4239         R808R9102J         RC         1K OHM 1/16W           R3866								
R3857         R002T4680J         RC         68 OHM 1/4W         R4223         R808R9183J         RC         18K OHM 1/16W           R3858         R002T4205J         RC         2M OHM 1/4W         R4224         R808R9750J         RC         75 OHM 1/16W           ▲ R3859         R002T4100J         RC         10 OHM 1/4W         R4225         R808R9750J         RC         75 OHM 1/16W           ▲ R3860         R655842R2J         R,FUSE         2.2 OHM 1/4W         R4229         R808R9750J         RC         75 OHM 1/16W           A R3861         R3K781823J         R,METAL OXIDE         82K OHM 1W         R4230         R808R9750J         RC         75 OHM 1/16W           R3862         R803R9471J         RC         470 OHM 1/16W         R4235         R808R9222J         RC         2.2K OHM 1/16W           R3863         R803R9102J         RC         1K OHM 1/16W         R4238         R808R9101J         RC         100 OHM 1/16W           R3865         R803R9332J         RC         3.3K OHM 1/16W         R4240         R808R9334J         RC         330K OHM 1/16W           R3866         R002T4102J         RC         1K OHM 1/4W         R4241         R808R93472J         RC         4.7K OHM 1/16W           R3867<								
R3858         R002T4205J         RC         2M OHM 1/4W         R4224         R808R9750J         RC         75 OHM 1/16W           ▲ R3859         R002T4100J         RC         10 OHM 1/4W         R4225         R808R9750J         RC         75 OHM 1/16W           ▲ R3860         R655842R2J         R,FUSE         2.2 OHM 1/4W         R4229         R808R9750J         RC         75 OHM 1/16W           ▲ R3861         R3K781823J         R,METAL OXIDE         82K OHM 1W         R4230         R808R9750J         RC         75 OHM 1/16W           R3862         R803R9471J         RC         470 OHM 1/16W         R4235         R808R9750J         RC         2.2K OHM 1/16W           R3863         R803R9102J         RC         1K OHM 1/16W         R4238         R808R9101J         RC         100 OHM 1/16W           R3864         R002T2101J         RC         100 OHM 1/2W         R4239         R808R9102J         RC         1K OHM 1/16W           R3865         R803R9332J         RC         3.3K OHM 1/16W         R4240         R808R93932J         RC         330K OHM 1/16W           R3866         R002T4102J         RC         1K OHM 1/4W         R4241         R808R9472J         RC         4.7K OHM 1/16W           R3867<								
▲ R3859         R002T4100J         RC         10 OHM 1/4W         R4225         R808R9750J         RC         75 OHM 1/16W           ▲ R3860         R655842R2J         R,FUSE         2.2 OHM 1/4W         R4229         R808R9750J         RC         75 OHM 1/16W           ▲ R3861         R3K781823J         R,METAL OXIDE         82K OHM 1W         R4230         R808R9750J         RC         75 OHM 1/16W           R3862         R803R9471J         RC         470 OHM 1/16W         R4235         R808R9750J         RC         75 OHM 1/16W           R3863         R803R9102J         RC         1K OHM 1/16W         R4235         R808R9101J         RC         100 OHM 1/16W           A R3864         R803R9302J         RC         1K OHM 1/16W         R4238         R808R9102J         RC         1K OHM 1/16W           R3865         R803R9332J         RC         3.3K OHM 1/16W         R4240         R808R93102J         RC         1K OHM 1/16W           R3866         R002T4102J         RC         1K OHM 1/4W         R4241         R808R9472J         RC         4.7K OHM 1/16W           R3867         R002T4223J         RC         2K OHM 1/16W         R4242         R808R9102J         RC         4.7K OHM 1/16W           R3868								
▲ R3861         R3K781823J         R,METAL OXIDE         82K OHM 1W         R4230         R808R9750J         RC         75 OHM 1/16W           R3862         R803R9471J         RC         470 OHM 1/16W         R4235         R808R9750J         RC         2.2K OHM 1/16W           R3863         R803R9102J         RC         1K OHM 1/16W         R4238         R808R9101J         RC         100 OHM 1/16W           ▲ R3864         R002T2101J         RC         100 OHM 1/2W         R4239         R808R9102J         RC         1K OHM 1/16W           R3865         R803R9332J         RC         3.3K OHM 1/16W         R4240         R808R9334J         RC         330K OHM 1/16W           R3866         R002T4102J         RC         1K OHM 1/4W         R4241         R808R9472J         RC         4.7K OHM 1/16W           R3867         R002T4223J         RC         22K OHM 1/4W         R4242         R808R9102J         RC         1K OHM 1/16W           R3868         R803R9470F         RC         47 OHM 1/16W         R4243         R808R912J         RC         4.7K OHM 1/16W           R3869         R803R9682F         RC         6.8K OHM 1/16W         R4244         R808R9102J         RC         1K OHM 1/16W           R3870 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
R3862       R803R9471J       RC       470 OHM 1/16W       R4235       R808R9222J       RC       2.2K OHM 1/16W         R3863       R803R9102J       RC       1K OHM 1/16W       R4238       R808R9101J       RC       100 OHM 1/16W         A R3864       R002T2101J       RC       100 OHM 1/2W       R4239       R808R9102J       RC       1K OHM 1/16W         R3865       R803R9332J       RC       3.3K OHM 1/16W       R4240       R808R9334J       RC       330K OHM 1/16W         R3866       R002T4102J       RC       1K OHM 1/4W       R4241       R808R9472J       RC       4.7K OHM 1/16W         R3867       R002T4223J       RC       22K OHM 1/4W       R4242       R808R9102J       RC       1K OHM 1/16W         R3868       R803R9470F       RC       47 OHM 1/16W       R4243       R808R9102J       RC       1K OHM 1/16W         R3869       R803R9472F       RC       6.8K OHM 1/16W       R4244       R808R9102J       RC       1K OHM 1/16W         R3870       R803R9472F       RC       4.7K OHM 1/16W       R4245       R808R9152J       RC       1K OHM 1/16W			· ·					
R3863       R803R9102J       RC       1K OHM 1/16W       R4238       R808R9101J       RC       100 OHM 1/16W         ▲ R3864       R002T2101J       RC       100 OHM 1/2W       R4239       R808R9102J       RC       1K OHM 1/16W         R3865       R803R9332J       RC       3.3K OHM 1/16W       R4240       R808R9334J       RC       330K OHM 1/16W         R3866       R002T4102J       RC       1K OHM 1/4W       R4241       R808R9472J       RC       4.7K OHM 1/16W         R3867       R002T4223J       RC       22K OHM 1/4W       R4242       R808R9102J       RC       1K OHM 1/16W         R3868       R803R9470F       RC       47 OHM 1/16W       R4243       R808R9102J       RC       4.7K OHM 1/16W         R3869       R803R9682F       RC       6.8K OHM 1/16W       R4244       R808R9102J       RC       1K OHM 1/16W         R3870       R803R9472F       RC       4.7K OHM 1/16W       R4245       R808R9152J       RC       1.5K OHM 1/16W			· ·					
▲ R3864         R002T2101J         RC         100 OHM 1/2W         R4239         R808R9102J         RC         1K OHM 1/16W           R3865         R803R9332J         RC         3.3K OHM 1/16W         R4240         R808R9334J         RC         330K OHM 1/16W           R3866         R002T4102J         RC         1K OHM 1/4W         R4241         R808R9472J         RC         4.7K OHM 1/16W           R3867         R002T4223J         RC         22K OHM 1/4W         R4242         R808R9102J         RC         1K OHM 1/16W           R3868         R803R9470F         RC         47 OHM 1/16W         R4243         R808R9472J         RC         4.7K OHM 1/16W           R3869         R803R9682F         RC         6.8K OHM 1/16W         R4244         R808R9102J         RC         1K OHM 1/16W           R3870         R803R9472F         RC         4.7K OHM 1/16W         R4245         R808R9152J         RC         1.5K OHM 1/16W								
R3865         R803R9332J         RC         3.3K OHM 1/16W         R4240         R808R9334J         RC         330K OHM 1/16W           R3866         R002T4102J         RC         1K OHM 1/4W         R4241         R808R9472J         RC         4.7K OHM 1/16W           R3867         R002T4223J         RC         22K OHM 1/4W         R4242         R808R9102J         RC         1K OHM 1/16W           R3868         R803R9470F         RC         47 OHM 1/16W         R4243         R808R9472J         RC         4.7K OHM 1/16W           R3869         R803R9682F         RC         6.8K OHM 1/16W         R4244         R808R9102J         RC         1K OHM 1/16W           R3870         R803R9472F         RC         4.7K OHM 1/16W         R4245         R808R9152J         RC         1.5K OHM 1/16W								
R3866         R002T4102J         RC         1K OHM 1/4W         R4241         R808R9472J         RC         4.7K OHM 1/16W           R3867         R002T4223J         RC         22K OHM 1/4W         R4242         R808R9102J         RC         1K OHM 1/16W           R3868         R803R9470F         RC         47 OHM 1/16W         R4243         R808R9472J         RC         4.7K OHM 1/16W           R3869         R803R9682F         RC         6.8K OHM 1/16W         R4244         R808R9102J         RC         1K OHM 1/16W           R3870         R803R9472F         RC         4.7K OHM 1/16W         R4245         R808R9152J         RC         1.5K OHM 1/16W								
R3868         R803R9470F         RC         47 OHM 1/16W         R4243         R808R9472J         RC         4.7K OHM 1/16W           R3869         R803R9682F         RC         6.8K OHM 1/16W         R4244         R808R9102J         RC         1K OHM 1/16W           R3870         R803R9472F         RC         4.7K OHM 1/16W         R4245         R808R9152J         RC         1.5K OHM 1/16W		R002T4102J	RC	1K OHM 1/4W			RC	4.7K OHM 1/16W
R3869 R803R9682F RC 6.8K OHM 1/16W R4244 R808R9102J RC 1K OHM 1/16W R3870 R803R9472F RC 4.7K OHM 1/16W R4245 R808R9152J RC 1.5K OHM 1/16W								
R3870 R803R9472F RC 4.7K OHM 1/16W R4245 R808R9152J RC 1.5K OHM 1/16W								
∡ noo/    nuuz 4zzoj MU	R3871		RC	22K OHM 1/4W	R4245	R808R9332J	RC	3.3K OHM 1/16W

REF. NO.	PART NO.	DESCRIPTI	ON	REF. NO.	PART NO.	DESCRIPT	TON
		RESISTORS				RESISTORS	
R4247	R808R9101J	RC	100 OHM 1/16W	R8515	R808R9103J	RC	10K OHM 1/16W
R4248	R808R9102J	RC	1K OHM 1/16W	R8516	R808R9103J	RC	10K OHM 1/16W
R4249	R808R9221J	RC	220 OHM 1/16W	R8519	R808R9101J	RC	100 OHM 1/16W
R4250	R808R9101J	RC	100 OHM 1/16W	R8522	R808R9223J	RC	22K OHM 1/16W
R4251	R808R9680J	RC	68 OHM 1/16W	R8523	R808R9223J	RC	22K OHM 1/16W
R4252	R808R9332J	RC	3.3K OHM 1/16W	R8525	R808R9221J	RC	220 OHM 1/16W
R4253	R808R9222J	RC RC	2.2K OHM 1/16W	R8526	R808R9221J	RC	220 OHM 1/16W
R4254 R4255	R808R9332J R808R9334J	RC	3.3K OHM 1/16W 330K OHM 1/16W	C300	CS0UB0N15K	CAPACITORS  CC	0.1 UF 10V B
R4256	R808R9683J	RC	68K OHM 1/16W	C300	CS0UB0N15K	CC	0.1 UF 10V B
R4257	R808R9104J	RC	100K OHM 1/16W	C302	CS0UB0N15K	CC	0.1 UF 10V B
R4258	R808R9222J	RC	2.2K OHM 1/16W	C304	CS0UB0413K	CC	0.001 UF 50V B
R4259	R808R9472J	RC	4.7K OHM 1/16W	C305	CS0UB04Q3K	cc	0.0047UF 50V B
R4260	R808R9102J	RC	1K OHM 1/16W	C306	CS0UB0N15K	cc	0.1 UF 10V B
R4261	R808R9750J	RC	75 OHM 1/16W	C307	CS0RB04Q5K	cc	0.47 UF 50V B
R4262	R808R9222J	RC	2.2K OHM 1/16W	C308	CS0UCH4U2J	CC	680 PF 50V CH
R4263	R808R9750J	RC	75 OHM 1/16W	C309	CS0PB0316K	CC	1 UF 25V B
R4264	R808R9102J	RC	1K OHM 1/16W	C310	CS0PB0316K	CC	1 UF 25V B
R4265	R808R9750J	RC	75 OHM 1/16W	C311	CS0PB0315K	CC	0.1 UF 25V B
R4266	R808R9222J	RC	2.2K OHM 1/16W	C312	CS0PB0315K	CC	0.1 UF 25V B
R4267	R808R9561J	RC	560 OHM 1/16W	C313	E7EST4471M	CE	470 UF 35V
R4268	R808R9561J	RC	560 OHM 1/16W	C315	CS0PB0315K	CC	0.1 UF 25V B
R4269	R808R9104J	RC	100K OHM 1/16W	C316	CS0PB0315K	CC	0.1 UF 25V B
R4270	R808R9104J	RC	100K OHM 1/16W	C317	CS0UB04L2K	CC	330 PF 50V B
R4290 R4291	R808R9222J R808R9222J	RC RC	2.2K OHM 1/16W 2.2K OHM 1/16W	C318 C319	CS0UB04L2K CS0PB0415K	CC	330 PF 50V B 0.1 UF 50V B
R4306	R808R9102J	RC	1K OHM 1/16W	C320	CS0PB0415K	CC	0.1 UF 50V B
R4307	R808R9750J	RC	75 OHM 1/16W	C321	CS0PB0415K	CC	0.1 UF 50V B
R4308	R808R9750J	RC	75 OHM 1/16W	C322	CS0PB0415K	CC	0.1 UF 50V B
R4309	R808R9101J	RC	100 OHM 1/16W	C323	CS0PB0415K	cc	0.1 UF 50V B
R4310	R808R9101J	RC	100 OHM 1/16W	C324	CS0PB0415K	CC	0.1 UF 50V B
R4311	R808R9330J	RC	33 OHM 1/16W	C325	CS0PB0415K	cc	0.1 UF 50V B
R4313	R808R9683J	RC	68K OHM 1/16W	C326	CS0PB0415K	CC	0.1 UF 50V B
R4315	R808R9153J	RC	15K OHM 1/16W	C327	CS0UB0413K	CC	0.001 UF 50V B
R4316	R808R9183J	RC	18K OHM 1/16W	C328	CS0UB0413K	CC	0.001 UF 50V B
R4317	R808R9183J	RC	18K OHM 1/16W	C329	CS0UB0413K	CC	0.001 UF 50V B
R4318	R808R9682J	RC	6.8K OHM 1/16W	C330	CS0UB0413K	CC	0.001 UF 50V B
R4319	R808R9682J	RC	6.8K OHM 1/16W	C331	CS0UB0413K	CC	0.001 UF 50V B
R4320	R808R9103J	RC	10K OHM 1/16W	C332	CS0UB0413K	CC	0.001 UF 50V B
R4321 R4322	R808R9183J	RC RC	18K OHM 1/16W 100 OHM 1/16W	C333 C2203	CS0RB04Q5K	CC	0.47 UF 50V B
R4322 R4323	R808R9101J R808R9101J	RC	100 OHM 1/16W 100 OHM 1/16W	C2203 C2204	CS0RB0PH7M CS0RB0PH7M	CC	22 UF 6.3V B 22 UF 6.3V B
R4328	R808R9183J	RC	18K OHM 1/16W	C2301	CS0UB0N15K	CC	0.1 UF 10V B
R4329	R808R9101J	RC	100 OHM 1/16W	C2303	CS0UB0N15K	cc	0.1 UF 10V B
R4330	R808R9101J	RC	100 OHM 1/16W	C2304	E7ESU2470M	CE	47 UF 16V
R4333	R808R9750J	RC	75 OHM 1/16W	C2305	CS0UB0N15K	cc	0.1 UF 10V B
R4334	R808R9750J	RC	75 OHM 1/16W	C2306	E7EXU1101D	CE	100 UF 10V
R4335	R808R9750J	RC	75 OHM 1/16W	C2307	CS0UB0N15K	cc	0.1 UF 10V B
R4336	R808R9472J	RC	4.7K OHM 1/16W	C2308	CS0UCH4L1J	CC	33 PF 50V CH
R4337	R808R9472J	RC	4.7K OHM 1/16W	C2311	CS0UB0N15K	CC	0.1 UF 10V B
R4347	R808R9330J	RC	33 OHM 1/16W	C2319	CS0UB0314K	CC	0.01 UF 25V B
R5806	R808R9101J	RC	100 OHM 1/16W	C2320	E7ESU2470M	CE	47 UF 16V
R5807	R808R9101J	RC	100 OHM 1/16W	C2321	E7ESU2470M	CE	47 UF 16V
R5808	R808R9750J	RC	75 OHM 1/16W	C2322	CS0UB0NH5K	CC	0.22 UF 10V B
R5809	R808R9750J	RC RC	75 OHM 1/16W	C2323	CS0UB0NH5K	CC	0.22 UF 10V B
R5810 R5814	R808R9472J R808R9332J	RC RC	4.7K OHM 1/16W 3.3K OHM 1/16W	C2325 C2327	CS0UB0315K CS0UB0315K	CC	0.1 UF 25V B 0.1 UF 25V B
R5814 R5815	R808R9332J	RC	3.3K OHM 1/16W	C2327	CS0UB0315K	CC	0.1 UF 25V B 0.1 UF 25V B
R5816	R808R9102J	RC	1K OHM 1/16W	C2329	CS0UB0315K	CC	0.1 UF 25V B
R5817	R808R9153J	RC	15K OHM 1/16W	C2330	CS0UB0315K	CC	0.1 UF 25V B
R5818	R808R9153J	RC	15K OHM 1/16W	C2331	CS0UB0315K	cc	0.1 UF 25V B
R5824	R808R9102J	RC	1K OHM 1/16W	C2332	CS0UCH411J	cc	10 PF 50V CH
R6207	R808R9103J	RC	10K OHM 1/16W	C2333	CS0UB0314K	cc	0.01 UF 25V B
R6208	R808R9472J	RC	4.7K OHM 1/16W	C2334	CS0UB0314K	CC	0.01 UF 25V B
R6501	R808R9101J	RC	100 OHM 1/16W	C2335	CS0UCH412J	CC	100 PF 50V CH
R6502	R808R9101J	RC	100 OHM 1/16W	C2801	CS0UB0N15K	CC	0.1 UF 10V B
R8501	R808R9100J	RC	10 OHM 1/16W	C2803	CS0UB0214K	CC	0.01 UF 16V B
R8502	R808R9100J	RC	10 OHM 1/16W	C2804	CS0PB0NQ5K	CC	0.47 UF 10V B
R8503	R808R9334J	RC	330K OHM 1/16W	C2805	CS0UB0214K	CC	0.01 UF 16V B
R8504	R808R9103J	RC	10K OHM 1/16W	C2807	CS0UCH4H1J	CC	22 PF 50V CH
R8505	R808R9103J	RC	10K OHM 1/16W	C2808	CS0UCH4K1J	CC	27 PF 50V CH
R8506	R808R9334J	RC RC	330K OHM 1/16W	C2810	CS0UB0413K	CC	0.001 UF 50V B
R8507 R8509	R808R9100J R808R9223J	RC RC	10 OHM 1/16W 22K OHM 1/16W	C2811 C2812	CS0RB0N17K CS0UB0N15K	CC	10 UF 10V B 0.1 UF 10V B
R8510	R808R9223J	RC	22K OHM 1/16W	C2812 C2813	CS0UB0N15K	CC	0.1 UF 10V B
R8511	R808R9103J	RC	10K OHM 1/16W	C2814	CS0UB0N15K	CC	0.1 UF 10V B
R8513	R808R9103J	RC	10K OHM 1/16W	C2815	CS0UB0N15K	CC	0.1 UF 10V B
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REF. NO.	PART NO.	DESCRIPTIO	N	REF. NO.	PART NO.	DESCRIPTION	N
		CAPACITORS				CAPACITORS	
C2816	CS0UB0N15K	CC 0	.1 UF 10V B	C2904	CS0UB0N15K	CC	).1 UF 10V B
C2817	CS0UB0N15K		.1 UF 10V B	C2905	CS0UB0N15K		).1 UF 10V B
C2818	CS0UB0N15K		1 UF 10V B	C2906	CS0UB0N16K	CC 1	
C2819	CS0UB0N15K		1 UF 10V B	C2907	CS0UB0N16K	CC 1	
C2820	CS0UB0N15K		1 UF 10V B	C2908	CS0UB0N16K	CC 1	
C2821 C2822	CS0UB0N15K CS0UB0N15K		.1 UF 10V B .1 UF 10V B	C2909 C2911	CS0UB0N15K CS0RB0N17K		0.1 UF 10V B 0 UF 10V B
C2823			.1 UF 10V B	C2911 C2912	CS0HB0N17K		0.1 UF 10V B
C2824			1 UF 10V B	C2912 C2913	CS0UB0N15K		0.1 UF 10V B
C2825			1 UF 10V B	C2914	CS0UB0N15K		0.1 UF 10V B
C2826			1 UF 10V B	C2915	CS0UB0N16K	CC 1	
C2827			1 UF 10V B	C2916	CS0UB0N15K		).1 UF 10V B
C2828	CS0UB0N15K	CC 0	1 UF 10V B	C2917	CS0RB0N17K	CC 1	0 UF 10V B
C2829	CS0UB0N15K	CC 0	.1 UF 10V B	C2918	CS0RB0N17K	CC 1	0 UF 10V B
C2830	CS0UB0N15K	CC 0	.1 UF 10V B	C2919	CS0UB0N16K	CC 1	UF 10V B
C2831			.1 UF 10V B	C2921	CS0UB0N15K		0.1 UF 10V B
C2832	CS0UB0N15K		1 UF 10V B	C2923	CS0PB0N16K	CC 1	
C2833			1 UF 10V B	C2925	CS0RB0N17K		0 UF 10V B
C2834	CS0UB0N15K		1 UF 10V B	C2926	CS0RB0N17K		0 UF 10V B
C2835	CS0UB0N15K CS0UB0N15K		1 UF 10V B	C2927	CS0RB0N17K		0 UF 10V B
C2836 C2837			1 UF 10V B 1 UF 10V B	C2928 C2929	CS0RB0N17K CS0RB0N17K		0 UF 10V B 0 UF 10V B
C2838	CS0UB0N15K		1 UF 10V B	C2929 C2930	CS0RB0N17K		0 UF 10V B
C2839			1 UF 10V B	C2931	CS0UB0N15K		).1 UF 10V B
C2840	CS0UB0N15K		1 UF 10V B	C2932	CS0UB0N15K		0.1 UF 10V B
C2841			30 UF 2.5V	C2933	CS0UB0N15K		0.1 UF 10V B
C2842	CS0UB0N16K		UF 10V B	C2934	CS0UB0N15K		).1 UF 10V B
C2843	CS0UB0N15K	CC 0	.1 UF 10V B	C2935	CS0RB0N17K	CC 1	0 UF 10V B
C2844	CS0UB0N15K	CC 0	.1 UF 10V B	C2936	CS0UB0N15K	CC	).1 UF 10V B
C2845	CS0UB0N15K		.1 UF 10V B	C2937	CS0UB0N15K		).1 UF 10V B
C2846	CS0UB0N15K		.1 UF 10V B	C2938	CS0UB0N15K		).1 UF 10V B
C2847	CS0UB0N15K		1 UF 10V B	C2939	CS0UB0N15K		0.1 UF 10V B
C2848		CC 1		C2940	CS0UB0N15K		0.1 UF 10V B
C2851 C2854			20 UF 16V	C2941 C2942	CS0UB0N15K		0.1 UF 10V B
C2854 C2855			.1 UF 25V B 0 UF 10V B	C2942 C2943	CS0UB0N15K CS0UB0N15K		0.1 UF 10V B 0.1 UF 10V B
C2856			0 UF 10V B	C2943	CS0UB0N15K		0.1 UF 10V B
C2857			1 UF 10V B	C2945	CS0UB0N15K		0.1 UF 10V B
C2858			1 UF 10V B	C2946	CS0PB0N16K	CC 1	
C2859	CS0UB0N15K		1 UF 10V B	C2948	CS0PB0N16K	CC 1	
C2860	CS0RB0N17K	CC 1	0 UF 10V B	C2950	CS0UB0N15K	cc	).1 UF 10V B
C2861	CS0RB0N17K	CC 1	0 UF 10V B	C2951	CS0RB0N17K	CC 1	0 UF 10V B
C2862		CC 1	0 UF 10V B	C2952	CS0PB0N16K		UF 10V B
C2863	CS0RB0N17K			C2953	CS0UB0N15K		).1 UF 10V B
C2864			1 UF 10V B	C2954	CS0UB0N15K		0.1 UF 10V B
C2865	CS0UB0N15K		1 UF 10V B	C2955	CS0UB0N15K		0.1 UF 10V B
C2866	CS0UB0N15K		1 UF 10V B	C2956	CS0UB0N15K		0.1 UF 10V B
C2867 C2868	CS0UB0N15K CS0UB0N15K		1 UF 10V B 1 UF 10V B	C2957 C2958	CS0UB0N15K CS0UB0N15K		0.1 UF 10V B 0.1 UF 10V B
C2869	CS0UB0N15K		.1 UF 10V B	C2959	E7EXU2220D		22 UF 16V
C2809	CS0UB0N16K			C2959 C2960	CS0UB0N15K		0.1 UF 10V B
C2871	CS0UB0N16K			C2961	CS0UCH4Q2J		70 PF 50V CH
C2872	CS0RB0N17K		0 UF 10V B	C2962	CS0UCH4Q2J		70 PF 50V CH
C2873	CS0UB0N15K		1 UF 10V B	C2963	CS0UB0N15K		).1 UF 10V B
C2874	CS0UB0N15K	lcc 0	.1 UF 10V B	C2964	CS0UB0N15K		0.1 UF 10V B
C2875	CS0UB0N15K		1 UF 10V B	C2966	CS0RB0N17K		0 UF 10V B
C2876	CS0UB0N15K		.1 UF 10V B	C2967	CS0PB0N16K	CC 1	
C2877	CS0UB0N15K		.1 UF 10V B	C2972	CS0PB0N16K	CC 1	
C2878	CS0UB0N16K			C2974	CS0PB0N16K	CC 1	
C2879	CS0UB0N15K		1 UF 10V B	C2976	CS0UB0N15K		0.1 UF 10V B
C2880 C2881	CS0UB0N15K CS0UB0N15K		.1 UF 10V B .1 UF 10V B	C2979 C2980	CS0UB0N15K CS0UB0N15K		).1 UF 10V B ).1 UF 10V B
C2882	CS0UB0N15K		1 UF 10V B	C2980 C2981	CS0UB0N15K		0.1 UF 10V B
C2883	CS0UB0N15K		1 UF 10V B	C2982	CS0UB0N15K		0.1 UF 10V B
C2884	CS0UB0N15K		1 UF 10V B	C2984	CS0PB0N16K		UF 10V B
C2885	CS0UB0N15K		1 UF 10V B	C2986	E7EPU0331M		330 UF 6.3V
C2886	CS0UB0N15K		1 UF 10V B	C3002	CS0RB02Q6K		I.7 UF 16V B
C2887	CS0UB0N15K		1 UF 10V B	C3003	CS0PB0415K		0.1 UF 50V B
C2888	CS0UB0N15K		1 UF 10V B	C3004	CS0UB0N15K		).1 UF 10V B
C2889	CS0UB0N15K		.1 UF 10V B	C3006	CS0RB02Q6K		I.7 UF 16V B
C2891	CS0UB0N15K		1 UF 10V B	C3008	CS0UB0413K		0.001 UF 50V B
C2897	CS0UB0N15K		1 UF 10V B	C3009	CS0RB0N17K		0 UF 10V B
C2898 C2899	CS0UB0N16K CS0UB0N16K		UF 10V B UF 10V B	C3011 C3012	CS0PB0N16K CS0UB0N15K		UF 10V B 0.1 UF 10V B
C2899 C2900	CS0UB0N16K		1 UF 10V B	C3012	CS00B0N15K		0.1 UF 10V B
C2900 C2902	CS0UB0N16K		UF 10V B	C3014 C3015	CS0HB0N17K		0.1 UF 10V B
C2903	CS0UB0N16K			C3016	CS0PB0315K		0.1 UF 25V B
02000	SSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	<u></u>	01 101 0	50010	2001 D00101/	1	0, 201 0

REF. NO.	PART NO.	DESCRIPT	ON	REF. NO.	PART NO.	DESCRIPT	ION
00047	0000000151/	CAPACITORS	0.4.115.051/.0	00000	00000004514	CAPACITORS	0.4. UE 051/ D
C3017		CC	0.1 UF 25V B	C3863	CS0PB0315K	CC	0.1 UF 25V B
C3020	CS0RB0N17K	CC	10 UF 10V B	C3864	CS0PB0315K	CC	0.1 UF 25V B
C3022 C3024		CC	0.015 UF 25V B	C3865 C3866	CS0PB0315K E8E2U3101D	CC CE	0.1 UF 25V B 100 UF 25V
C3024 C3025		CC	0.01 UF 25V B 10 UF 10V B	C3869	E8E1U0471M	CE	470 UF 6.3V
C3025		CC	0.1 UF 16V B	C3873	E8E2U1221D	CE	220 UF 10V
C3027		CC	10 UF 10V B	C3875	CS0RB02Q6K	CC	4.7 UF 16V B
C3029		CC	0.022 UF 50V B	C3877	CS0PB0N16K	cc	1 UF 10V B
C3031		CE	150 UF 2V	C3879	CS0RB02Q6K	cc	4.7 UF 16V B
C3032	CS0UB0N15K		0.1 UF 10V B	C3881	CS0PB0NL5K	cc	0.33 UF 10V B
C3034	CS0UB0N15K	cc	0.1 UF 10V B	C3882	CS0PB04H3K	cc	0.0022UF 50V B
C3035	CS0UB0314K	cc	0.01 UF 25V B	C3884	CS0PB02S4K	cc	0.056 UF 16V B
C3036	CS0UB0413K	cc	0.001 UF 50V B	C3885	CS0PB0414K	cc	0.01 UF 50V B
C3039	CS0UB03E4K	CC	0.015 UF 25V B	C3887	CS0PB0315K	cc	0.1 UF 25V B
C3043		CC	0.1 UF 25V B	C3888	CS0RB03Q6K	cc	4.7 UF 25V B
C3045	CS0RB0N17K		10 UF 10V B	C3889	CS0RB03Q6K	cc	4.7 UF 25V B
C3054		CC	0.001 UF 50V B	C3890	CS0RB03Q6K	CC	4.7 UF 25V B
C3057		CE	100 UF 4V	C3891	CS0RB03Q6K	CC	4.7 UF 25V B
C3058		CE	100 UF 16V	C3893	CS0PB0315K	CC	0.1 UF 25V B
C3059		CC	0.047 UF 25V B 0.1 UF 10V B	C3894	CS0PB0315K	CC	0.1 UF 25V B
C3062	CS0UB0N15K CS0PB0PQ6K	CC	4.7 UF 6.3V B	C3895	CS0PB0413K	CC	0.001 UF 50V B 0.1 UF 25V B
C3064 C3065		CC	4.7 UF 16V B	C3896 C3897	CS0PB0315K CS0PB0315K	CC	0.1 UF 25V B 0.1 UF 25V B
C3601	CS0UB0N15K		0.1 UF 10V B	C4001	CS0FB0315K	CC	0.1 UF 10V B
C3602	CS0UB0N15K	CC	0.1 UF 10V B	C4001	CS0UB0N15K	CC	0.1 UF 10V B
C3607		CC	0.01 UF 16V B	C4005	CS0UB0N15K	CC	0.1 UF 10V B
C3608		CC	0.0022UF 50V B	C4006	CS0UB0P16K	cc	1 UF 6.3V B
C3609	CS0UB0N15K		0.1 UF 10V B	C4007	CS0UB0N15K	cc	0.1 UF 10V B
C3610		CC	4.7 UF 6.3V B	C4008	CS0UB0N15K	cc	0.1 UF 10V B
C3613	CS0UB03H4K		0.022 UF 25V B	C4012	CS0UCH412J	cc	100 PF 50V CH
C3627	CS0UB0N15K	cc	0.1 UF 10V B	C4013	CS0UB0N15K	cc	0.1 UF 10V B
C3802	CS0RB04Q5K	cc	0.47 UF 50V B	C4015	E7ESU0221M	CE	220 UF 6.3V
C3804	P1S3T0102J	CP	0.001 UF 50V	C4019	CS0RB0PQ6K	cc	4.7 UF 6.3V B
<b>⚠</b> C3805	E718HC561D	CE	560 UF 200V	C4020	CS0UB0N15K	cc	0.1 UF 10V B
C3806	CS0PB0415K	CC	0.1 UF 50V B	C4023	CS0UB0N15K	cc	0.1 UF 10V B
<u>∧</u> C3808		CMPP	0.33 UF 310V	C4029	CS0UB0N15K	cc	0.1 UF 10V B
<u>∧</u> C3809		CC	470 PF 250V E	C4033	CS0UCH4K1J	cc	27 PF 50V CH
<u>∧</u> C3811	CE39E0MQ2K		470 PF 250V E	C4036	CS0UB0N15K	CC	0.1 UF 10V B
<u>∧</u> C3813		CMPP	0.22 UF 310V	C4037	CS0UCH4K1J	CC	27 PF 50V CH
C3814 C3815		CC	0.01 UF 50V B 2.2 UF 25V B	C4038 C4041	CS0UB0N15K	CC CC	0.1 UF 10V B 100 PF 50V CH
C3818	CS0PB0413K	CC	0.001 UF 50V B	C4041 C4043	CS0UCH412J CS0UB0314K	CC	0.01 UF 25V B
C3819		CE	10 UF 50V	C4043	E7EXU2220D	CE	22 UF 16V
C3820	E8E2U5100D	CE	10 UF 50V	C4045	CS0UB03U3K	CC	0.0068UF 25V B
C3821		CC	0.1 UF 50V B	C4047	E7EXU1221D	CE	220 UF 10V
C3822	CS3RB0416K	CC	1 UF 50V B	C4048	CS0UB0413K	cc	0.001 UF 50V B
C3824	CS0PB0414K	cc	0.01 UF 50V B	C4049	CS0UB0413K	cc	0.001 UF 50V B
<b>⚠</b> C3825	E9UEFC220D	CE	22 UF 200V	C4050	E7ESU0221M	CE	220 UF 6.3V
C3826	CS0PB0315K	CC	0.1 UF 25V B	C4052	CS0UB0N15K	cc	0.1 UF 10V B
C3827	CS3RB03H6K	CC	2.2 UF 25V B	C4053	CS0UB0413K	cc	0.001 UF 50V B
C3828		CC	1 UF 25V B	C4054	CS0UB0314K	cc	0.01 UF 25V B
C3829		CC	2.2 UF 10V B	C4055	CS0UB0N15K	cc	0.1 UF 10V B
C3830		CC	0.033 UF 25V B	C4057	CS0UB0413K	CC	0.001 UF 50V B
C3831	CS0PB04L3K	CC	0.0033UF 50V B	C4058	CS0UB0N15K	CC	0.1 UF 10V B
C3832		CC	470 PF 1KV R	C4059	CS0UB04E3K	CC	0.0015UF 50V B
C3833	C0340R613K	CC	0.001 UF 1KV R	C4060	CS0UB0413K	CC	0.001 UF 50V B
C3834 C3835	E8E2U5220D E8E2U5470D	CE CE	22 UF 50V 47 UF 50V	C4062 C4063	CS0UB0N15K CS0UB0N15K	CC	0.1 UF 10V B 0.1 UF 10V B
C3835	C234SL6E1J	CC	15 PF 1KV SL	C4063 C4064	CS0UB0N15K	CC	0.1 UF 10V B
∆ C3837		CMPP	0.1 UF 630V FGSM	C4064 C4066	CS0UB0P16K	CC	1 UF 6.3V B
C3838		CC	0.01 UF 50V B	C4071	CS0UB0413K	cc	0.001 UF 50V B
C3839		CC	0.0022UF 1KV R	C4072	CS0UCH412J	CC	100 PF 50V CH
C3840	CE39E0MH2K		220 PF 250V E	C4073	CS0UB0N15K	cc	0.1 UF 10V B
C3845		CC	0.0022UF 50V B	C4074	CS0UB0N15K	cc	0.1 UF 10V B
C3846		CE	4.7 UF 50V	C4075	CS0UCH4H1J	cc	22 PF 50V CH
C3847	CS0PB04H4K	CC	0.022 UF 50V B	C4076	CS0UCH412J	cc	100 PF 50V CH
<b>⚠</b> C3848		CE	470 UF 25V	C4088	CS0UCH4H2J	cc	220 PF 50V CH
<b>⚠</b> C3849		CE	1000 UF 25V	C4089	CS0UB03E4K	cc	0.015 UF 25V B
<b>⚠</b> C3850	E7EYT1102M	CE	1000 UF 10V	C4090	CS0UB0N15K	cc	0.1 UF 10V B
<b>⚠</b> C3851		CE	1000 UF 35V	C4101	CS0UCH4K2J	CC	270 PF 50V CH
<u>∧</u> C3852	E8E2T1471D	CE	470 UF 10V	C4102	CS0UCH4K2J	CC	270 PF 50V CH
<u>∧</u> C3853	E7ESF3102M	CE	1000 UF 25V	C4122	CS0UCH412J	CC	100 PF 50V CH
<b>△</b> C3855	E7EYF4102M	CE	1000 UF 35V	C4123	CS0UCH412J	CC	100 PF 50V CH
C3856	C03L0R713K	CC	0.001 UF 2KV R	C4230	CS0UB0N15K	CC	0.1 UF 10V B
C3857	P1S3T0102J	CP	0.001 UF 50V	C4231	E7EPU2470M	CE	47 UF 16V
C3861 C3862	CS0PB0414K CS0PB0315K	CC	0.01 UF 50V B	C4235	CS0RB0N17K CS0UB0N16K	CC	10 UF 10V B
U3002	OSUF BUS 13K	00	0.1 UF 25V B	C4236	MOLNINGO	00	1 UF 10V B

REF. NO.	PART NO.	DESCRIPT	ON	REF. NO.	PART NO.	DESCRIPT	ION
		CAPACITORS				DIODES	
C4237	CS0UCH4Q2J		470 PF 50V CH	D3805	DJBUA30012	DIODE ZENER	HZS30NB2
C4239	CS0RB0N17K	CC	10 UF 10V B	D3806	DOU011020M	DIODE VARISTA	DA38-102MB-M
C4240	CS0UB0N15K		0.1 UF 10V B	<u>∧</u> D3807	D4CTN40060	DIODE SILICON	1N4006-A5
C4242	CS0RB0N17K		10 UF 10V B	<u> </u>	D4CTN40060	DIODE SILICON	1N4006-A5
C4243		CC	470 PF 50V CH	D3809	D2ARMAB340	DIODE SCHOTTKY	SMAB34
C4245	CS0PB0N16K		1 UF 10V B	D3810	D4CT01H6A0	DIODE RECTIFIER	1H6-A2
C4246		CC	10 UF 10V B	D3812	DJBUA30012	DIODE ZENER	HZS30NB2
C4247		CC	100 PF 50V CH	D3813	DJBUA15012	DIODE ZENER	HZS15NB2
C4250	CS0RB0N17K		10 UF 10V B	D3814	DDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P
C4251	CS0RB0N17K	CC	10 UF 10V B	<u>∧</u> D3815	D4AT106FE0	DIODE RECTIFIER	RL106F-E
C4284		CE	47 UF 16V	D3816	D1VT001330 D28R11FS40	DIODE, SILICON	1SS133T-77
C5801	CS0UB0N15K	CC	0.1 UF 10V B	D3817	D28R11FS40 D28R11FS40	DIODE SCHOTTKY DIODE SCHOTTKY	EC11FS4-TE12L
C5805 C5806	CS0UCH4Q1J E7EPU0221M	CC CE	47 PF 50V CH 220 UF 6.3V	D3818 <u>∧</u> D3819	D28R11FS40 D28A10A450	DIODE SCHOTTKY  BARRIER	EC11FS4-TE12L FCQS10A045
C5808	CS0UB0N15K		0.1 UF 10V B	<u> </u>	D26A10A450 D2LT001F50	DIODE SILICON	1F5-E
C5809		CC	47 PF 50V CH	<u>∧</u> D3821	D28A10A061	DIODE SCHOTTKY BARRIER	FCQS10A065
C5816		CC	33 PF 50V CH	<u> </u>	D28A10A080	DIODE SCHOTTKY BARRIER	FCHS10A08
C5818		CC	0.1 UF 10V B	D3824	DJBUA11012	DIODE ZENER	HZS11NB2
C5819	CS0UB0N15K		0.1 UF 10V B	<u>∧</u> D3825	D2AA045CT0	DIODE SCHOTTKY BARRIER	MBRF1045CT
C5822		CC	33 PF 50V CH	D3828	D28R1QS040	DIODE	EC31QS04-TE12L
C5823		CC	39 PF 50V CH	D3829	DJBUA15012	DIODE ZENER	HZS15NB2
C5829		CC	0.33 UF 16V B	D3830	DJBUA15012	DIODE ZENER	HZS15NB2
C5832	CS0UB0N15K		0.1 UF 10V B	D3832	DJBUA22012	DIODE ZENER	HZS22NB2
C5838		CE	220 UF 6.3V	D3833	DJBUA18012	DIODE ZENER	HZS18NB2
C5844	CS0RB0N17K		10 UF 10V B	D4001	DGERMA1110	DIODE SILICON	MA111-(TX)
C6201		CC	0.1 UF 16V B	D6206	DGERMA1110	DIODE SILICON	MA111-(TX)
C6202	CS0UB0215K	cc	0.1 UF 16V B			ICS	
C6210	CS0UB0P14K	cc	0.01 UF 6.3V B	<b>⚠</b> IC301	I0WFP13TR0	SOUND AMP 2*20W	STA333W13TR
C6213	CS0PB0N16K	cc	1 UF 10V B	<b>⚠</b> IC2301	I1UFV5766S	5CH MOTOR DRIVER IC	AM5766
C6221	CS0UB0N15K	CC	0.1 UF 10V B	IC2801	I56M069750	SCALER	R8J66975BG
C8056	CS0UCH4S2J	CC	560 PF 50V CH	IC2802	IGXM05162E	DDR2-800 512M CL=5	H5PS5162FFR-S5C
C8501	CS0RB0N17K	CC	10 UF 10V B	IC2803	S54A09NE01	MEMORY DATA EEPROM SOIC M32P	AT24C32CN-SH-T
C8502	CS0RB0N17K	CC	10 UF 10V B	IC2804		MEMORY DATA FLASH 32M SPI 8PIN	AT25DF321-SU
C8503	CS0RB0N17K	CC	10 UF 10V B	▲ IC3001	I53F9V5800	2.5A STEP DOWN SW REG +-1.5%	LV5809NMX-TLM-H
C8504	CS0UCH412J	CC	100 PF 50V CH	<u></u> C3002 <u>↑</u>	I1ZF9110D0	VO=11V REG	R1190H110D-T1-F
C8507		CC	560 PF 50V CH	<b>⚠</b> IC3003	IGRF0704U0	2A DROPOUT LINEAR REGULATOR	UP7704U8
C8511	CS0UB0N15K	CC	0.1 UF 10V B	IC3005	I1ZF9331D0	REGULATOR 3.3V	RP131H331D-T1-F
C8512		CC	0.1 UF 10V B	▲ IC3006	I53F9V5800	2.5A STEP DOWN SW REG +-1.5%	LV5809NMX-TLM-H
C8513	E7EXU2100D	CE	10 UF 16V	<u></u> IC3801	I1KJ9A431A	VARIABLE SHUNT REGULATOR TAPE	
C8514		CC	100 PF 50V CH	<u>∧</u> IC3802	I16D052030	CURRENT RESONANT CTL IC	MCZ5203NA-7101
C8516	CS0UCH412J	CC	100 PF 50V CH	<u>∧</u> IC3803	I5PD028HN0	VD=800V ID=3A	VIPER28HN
C8517		CC	68 PF 50V CH	<u>∧</u> IC3804	I1KJ9A431A		KIA431A-AT
C8518	CS0UCH4U1J	CC	68 PF 50V CH	<u>∧</u> IC3805	I5HJ950UC0	REGULATOR VO=5.0V IO=800MA	
C8519		CE	100 UF 16V	IC3806	TK9A3443B0	FET	SI3443BDV-T1-E3
C8520		CC	0.01 UF 25V B	<u>∧</u> IC3807	I53F958930	1.8A 1CH STEP DOWN SW REG	LV5893M
C8521	CS0RB0N17K		10 UF 10V B	<u>∧</u> IC3808	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
C8522	CS0RB0N17K		10 UF 10V B	<u>∧</u> IC3809	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
C8523	CS0UB0N15K		0.1 UF 10V B	<u>∧</u> IC3810	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
C8524	CS0UCH412J CS0UCH412J		100 PF 50V CH	IC4001	IC8K0389K0	DVD MPEG 128PIN MEDIATEK MEMORY DATA 16MBIT FLASH 100MHZ	MT1389QE/K
C8525 C8529	CS0UCH412J CS0UB0314K		100 PF 50V CH 0.01 UF 25V B	IC4004	 IGXJ01620F		HY57V641620FTP-7
C8529 C8530	CS0UB0314K CS0UB0314K		0.01 UF 25V B	IC4005 IC6201	IGXJ01620F IC7J0291C0	SDRAM 64M CL=2 RESET IC 2.9 V TYPE CMOS	R3111N291C-TR-F
C8531	E7EST0102M		1000 UF 6.3V	IC6502	I55F0A53FU	A/V SW 2IN 1OUT	TC7PA53FU(T5L,F,T)
C8532	CS0UB0N15K		0.1 UF 10V B	IC8502	I0QF045650	DUAL OPEAMP	NJM4565M(TE1)
C8533	E7ESU0101M		100 UF 6.3V	IC8501	11ZF981D50	REGULATOR 1.8V	RP131H181D5-T1-F
C8534	CS0UB0413K		0.001 UF 50V B	100002	1121 301 1230	TRANSISTORS	10111101100 1 1-1
C8535	CS0UB0413K		0.001 UF 50V B	Q2301	TCAA3875SY	TRANSISTORS TRANSISTOR SILICON	KTC3875S_Y_RTK
C8536		CC	0.01 UF 25V B	Q2302	TAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P
C8538	CS0UB0413K		0.001 UF 50V B	Q2303	TAAA1505SY	TRANSISTOR SILICON	KTA1505S-Y-RTK/P
C8539	CS0UB0413K		0.001 UF 50V B	Q2304	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
C8540	CS0RB0N17K		10 UF 10V B	Q2305	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
_	<u> </u>	DIODES		Q2805	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
D2201	0021E9Q010	LED	LTL-1BEFJ-002A	Q2806	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
D2301	DDARR730E0	DIODE SCHOTTKY BARRIER	KDR730E-RTK/P	Q2807	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
D2302		DIODE SCHOTTKY BARRIER	KDR730E-RTK/P	Q3001	TJ5A104TU0	FET	SSM3K104TU(T5L,T)
D3001	D2ARMAB340	DIODE SCHOTTKY	SMAB34	Q3003	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
D3003	D2ARMAB340	DIODE SCHOTTKY	SMAB34	Q3007	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
D3004	D2ARMAB340	DIODE SCHOTTKY	SMAB34	Q3008	TJ5MC61100	FET	TPC6110(TE85L,F,M)
D3007	D2ARMAB340	DIODE SCHOTTKY	SMAB34	Q3010	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK
D3601	D61R0V8001	DIODE VARISTA	EZJZ0V80010	Q3601	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
D3602		DIODE VARISTA	EZJZ0V80010	Q3602	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
D3604		DIODE VARISTA	EZJZ0V80010	Q3604	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
D3605		DIODE VARISTA	EZJZ0V80010	Q3605	T27T035410	FET	2SK3541_T2L
<u> </u>		DIODE VARISTA	S14K300E2S5M4	Q3606	T27T035410	FET	2SK3541_T2L
<u> </u>		DIODE VARISTA	DA38-452MB-M	Q3607	T27T035410	FET	2SK3541_T2L
<b>⚠</b> D3803		DIODE	KBJ4J	Q3608	T27T035410	FET	2SK3541_T2L
<u> </u>	D7KE101520	DIODE VARISTA	S10K150E2S5M4	Q3610	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK

Q3805 Q3806 Q3807		TRANSISTORS	<del></del>				
Q3613 ⚠ Q3802 ⚠ Q3805 ⚠ Q3806 Q3807		CCT				MISCELLANEOUS	
△ Q3802 △ Q3805 △ Q3806 Q3807	T27T035410	FET	2SK3541_T2L	B301	024HC51216	CORE,BEADS	HCB1608KF-121T20
⚠ Q3805 ⚠ Q3806 Q3807		FET	2SK3541_T2L	B302	024HC13914	CORE,BEADS	HCB3216KF-391T20
Q3806 Q3807		TRANSISTOR SILICON	KTA1281_Y	B303	024HC13914	CORE,BEADS	HCB3216KF-391T20
Q3807		FET	STF16NF25	B304	024HC13914	CORE,BEADS	HCB3216KF-391T20
		FET	STF16NF25	B305	024HC13914	CORE,BEADS	HCB3216KF-391T20
Qaada		TRANSISTOR SILICON	KTC3875S_Y_RTK	B2341 B2342	024HC56013	CORE,BEADS	FCM1608KF-601T02
		TRANSISTOR SILICON COMPOUND TRANSISTOR	KTA1504S_Y_RTK KRC101S-RTK	B2342 B2801	024HC56013 024HC52213	CORE,BEADS CORE,BEADS	FCM1608KF-601T02 FCM1608KF-221T05
		TRANSISTOR, SILICON	KTA1271 Y-AT	B2805	024HC51816	CORE,BEADS	HCB1608KF-181T20
		TRANSISTOR, SILICON	KTC3198-AT(Y,GR)	B2807	024HC51816	CORE,BEADS	HCB1608KF-221T20
		TRANSISTOR SILICON	KTC3875S Y RTK	B2808	024HC52216	CORE,BEADS	HCB1608KF-221T20
		TRANSISTOR SILICON	KTC3875S Y RTK	B2812	024HC51216	CORE,BEADS	HCB1608KF-121T20
		TRANSISTOR SILICON	KTC3875S Y RTK	B2813	024HC51216	CORE,BEADS	HCB1608KF-121T20
		TRANSISTOR SILICON	KTC3875S Y RTK	B2814	024HC51216	CORE,BEADS	HCB1608KF-121T20
Q4207	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	B2818	024HC52216	CORE,BEADS	HCB1608KF-221T20
Q4209	T27T035410	FET	2SK3541_T2L	B3001	024HC52216	CORE,BEADS	HCB1608KF-221T20
Q4211	T27T035410	FET	2SK3541_T2L	B3004	024HC51216	CORE,BEADS	HCB1608KF-121T20
Q4219	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	B3008	024HC51216	CORE,BEADS	HCB1608KF-121T20
	TCAA3875SY	TRANSISTOR SILICON	KTC3875S_Y_RTK	B3012	024HC51816	CORE,BEADS	HCB1608KF-181T20
		COMPOUND TRANSISTOR	KRA101SRTK	B3014	024HC51816	CORE,BEADS	HCB1608KF-181T20
		TRANSISTOR SILICON	KTC3875S_Y_RTK	B3015	024HC51816	CORE,BEADS	HCB1608KF-181T20
		FET	2SK3541_T2L	B3016	024HC52216	CORE,BEADS	HCB1608KF-221T20
		COMPOUND TRANSISTOR	KRA103SRTK	B3020	024HC51816	CORE,BEADS	HCB1608KF-181T20
		FET	2SK3541_T2L	B3802	024AC1121G	CORE,BEADS	BLM31PG121SN1L
Q8507		FET	2SK3541_T2L	B4003	024HC51023	CORE,BEADS	FCM1608KF-102T02
1000		ILS &TRANSFORMERS	22 UH	B4008	024HC51023 024HC51023	CORE,BEADS	FCM1608KF-102T02
	021AMG220M 021AMG220M	COIL		B4010		CORE,BEADS CORE.BEADS	FCM1608KF-102T02
		COIL	22 UH 22 UH	B4012 B4203	024HC51023 024HC51023	CORE,BEADS	FCM1608KF-102T02 FCM1608KF-102T02
		COIL	22 UH	B4203	024HC51023	CORE,BEADS	FCM1608KF-102T02
		COIL	4.7 UH	B4204	024HC51023	CORE,BEADS	FCM1608KF-102T02
		COIL	10 UH	B4207	024HC51023	CORE,BEADS	FCM1608KF-102T02
		COIL	10 UH	B4208	024HC51023	CORE,BEADS	FCM1608KF-102T02
		COIL	10 UH	B4214	024HC51216	CORE,BEADS	HCB1608KF-121T20
		COIL CHOKE	EXC28CG900U	B4215	024HC56005	CORE,BEADS	FCM1608CF-600T06
L3602		COIL CHOKE	EXC28CG900U	B5803	024HC52216	CORE,BEADS	HCB1608KF-221T20
L3603	02D1000119	COIL CHOKE	EXC28CG900U	B6201	024HC51213	CORE,BEADS	FCM1608KF-121T06
L3604	02D1000119	COIL CHOKE	EXC28CG900U	B6202	024HC51213	CORE,BEADS	FCM1608KF-121T06
<u> </u>	029B000186	COIL,LINE FILTER	JLB28121	B6203	024HC51213	CORE,BEADS	FCM1608KF-121T06
L3802	02167E100K	COIL	10 UH	B6502	024HC51213	CORE,BEADS	FCM1608KF-121T06
		COIL	10 UH	B8501	024HC51216	CORE,BEADS	HCB1608KF-121T20
		COIL	10 UH	B8502	024HC51023	CORE,BEADS	FCM1608KF-102T02
		COIL	22 UH	B8503	024HC51216	CORE,BEADS	HCB1608KF-121T20
		COIL	0.27 UH	B8504	024HC51023	CORE,BEADS	FCM1608KF-102T02
		COIL	0.27 UH	CD301	06CP143601	CORD CONNECTOR	CP143601
		COIL	0.27 UH	CD501	120Q118901	CORD SET AC	LT01-001
		COIL	0.27 UH	CP301	06GG140019	CONNECTOR PCB SIDE	A2502WR-4A
		COIL	0.27 UH	CD2801 CD3803	06EH2U1602 06CP2E1407	CORD CONNECTOR	EH2U1602 CP2E1407
			1.8 UH				
<u>∧</u> T3801 <u>∧</u> T3802		TRANSFORMER,SWITCHING TRANSFORMER,SWITCHING		CD3807 CD3808	06CP283501 06CP2F0902	CORD CONNECTOR CORD CONNECTOR	CP283501 CP2F0902
2:310002	0701130131	JACKS	01100101	CD3808	06CP2F0902 06CP2E0903	CORD CONNECTOR	CP2E0903
<u></u> ∆J3801	064Q1A0014	JACK,AC	CCT2302-0921FC	CD3009 CD4201	06E82E2201	CORD CONNECTOR	E82E2201
J4202		JACK (DIN)	S4-29SBZ	CD6201	06CP234004	CORD CONNECTOR	CP234004
J4203		RCA JACK	AV3-6B-15H	CD6204	06CP255002	CORD CONNECTOR	CP255002
J4204		RCA JACK	AV3-6D-14H	CP2201	06GG250029	CONNECTOR PCB SIDE	A2001WV-5A
J4205		RCA JACK	AV3-6D-14H	CP2202	06GG230019	CONNECTOR PCB SIDE	A2001WR-3A
J4206	060K401144	RCA JACK	AV-4B-75H	CP2301	069EVKT060	CONNECTOR PCB SIDE	04_6232_122_015_800+
J4207		RCA JACK	AV2-6B-08Z	CP2302	06GRV53019	CONNECTOR PCB SIDE	FCZ100E-05SS-K
J4302	060K131027	HEADPHONE JACK	CKX-035-349ABZ1	CP2303	06GRV43019	CONNECTOR PCB SIDE	FCZ100E-04SS-K
L		SWITCHES		CP2801	06GG270029	CONNECTOR PCB SIDE	A2001WV-7A
SW2201		SWITCH,TACT	EVQ21505R	CP2802	06GG2B0029	CONNECTOR PCB SIDE	A2001WV-11A
SW2202		SWITCH,TACT	EVQ21505R	CP2803	06GSAA1008	CONNECTOR PCB SIDE	C-001-1-4K121400
SW2203		SWITCH,TACT	EVQ21505R	CP2804	06GG2U0051	CONNECTOR PCB SIDE	A2006WV30
SW2204		SWITCH TACT	EVQ21505R	CP3001	06GG2E0029	CONNECTOR PCB SIDE	A2001WV-14A
SW2205 SW2206		SWITCH TACT	EVQ21505R	CP3002 CP3601	06GG2F0029	CONNECTOR PCB SIDE CONNECTOR PCB SIDE	A2001WV-15A
SW2206 SW2207		SWITCH,TACT SWITCH,TACT	EVQ21505R EVQ21505R	CP3601 CP3602	06GSYJ3098 06GSYJ3098	CONNECTOR PCB SIDE	C-HDM-6-KK223110 C-HDM-6-KK223110
SW2207 SW2208		SWITCH,TACT	EVQ21505R	CP3802 CP3803	06GG2E0019	CONNECTOR PCB SIDE	A2001WR-14A
J***2200		BOARD ASSEMBLIES	L+ XL100011	CP3803	069S280629	CONNECTOR PCB SIDE	A2001WN-14A A2001WV2-8P
PCB130		DVD MT PCB ASS'Y	DMJ120B	CP3807	067U015019	WIRE HOLDER	B2013H02-15P
		POWER PCB ASS'Y	CEJ555A	CP3809	067U014019	WIRE HOLDER	B2013H02-14P
		OPERATION PCB ASS'Y	CEJ556A	CP4203	06G7S21501	CONNECTOR PCB SIDE	WD-00021-R
		REMOCON PCB ASS'Y	CEJ557A	CP4205	06GG2E0019	CONNECTOR PCB SIDE	A2001WR-14A
		DIGITAL PCB ASS'Y	CEJ554A	CP6202	06GG230019	CONNECTOR PCB SIDE	A2001WR-3A
	=	MISCELLANEOUS		CP6204	06GG250019	CONNECTOR PCB SIDE	A2001WR-5A
B300	024HC51216	CORE,BEADS	HCB1608KF-121T20	CP8501	06GG2E0019	CONNECTOR PCB SIDE	A2001WR-14A

REF. NO.	PART NO.	DESCRIPTION				
		MISCELLANEOUS				
CP8502	06GG280019	CONNECTOR PCB SIDE	A2001WR-8A			
EL2401	124116281A	EYE LET	XRY16X28BD			
EL2402	124120301A	EYE LET	XRY20X30BD			
<u></u> F3801	0805T06301	FUSE	SCT 6.3A			
<u></u> <b>₹</b> F3803	0835A02505	MICRO FUSE	20N_2500FSW			
<u></u> <b>1</b> F3807	0835A07005	MICRO FUSE	20N_7000FSW			
NR2801	110P4330M5	R,NETWORK	4D02WGJ0330TCE			
NR2802	110P4330M5	R,NETWORK	4D02WGJ0330TCE			
NR2803	110P4330M5	R,NETWORK	4D02WGJ0330TCE			
NR2804	110P4220M5	R,NETWORK	4D02WGJ0220TCE			
NR2805	110P4220M5	R,NETWORK	4D02WGJ0220TCE			
NR2812	110P4220M5	R,NETWORK	4D02WGJ0220TCE			
NR2814	110P4330M5	R,NETWORK	4D02WGJ0330TCE			
NR2815	110P4330M5	R,NETWORK	4D02WGJ0330TCE			
NR4002	11074330M7	R,NETWORK	CRA108330JV			
OS2201	077Q038009	REMOTE RECEIVER	KSM-2003TCW2P			
▲ SP301	070Y056012	SPEAKER	S0412F20			
▲ SP302	070Y056012	SPEAKER	S0412F20			
TM101	076R0SC011	TRANSMITTER	R56-2225			
TR4201	02AHB9A972	CORE,FERRITE	W5T29X7.5X19			
<u> </u>	0164K00030	DIGITAL TUNER	DTVA50CVH1019M			
<b>⚠</b> V2801	09E0132045	LCD	AX080A080G			
X2801	100GT02509	CRYSTAL	SMD-49 C25000H025			
	1003T02733	CRYSTAL	HC49SFWB			

#### RESISTOR

RC..... CARBON RESISTOR

#### CAPACITORS

CC......CERAMIC CAPACITOR
CE.....ALUMI ELECTROLYTIC CAPACITOR
CP.....POLYESTER CAPACITOR
CPP.....POLYPROPYLENE CAPACITOR
CPL....PLASTIC CAPACITOR
CMP.....METAL POLYESTER CAPACITOR
CMPL....METAL PLASTIC CAPACITOR
CMPP....METAL POLYPROPYLENE CAPACITOR